





UNITED STATES DEPARTMENT OF COMMERCE  
BUREAU OF FOREIGN AND DOMESTIC COMMERCE

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# STATISTICAL ABSTRACT

OF THE

## UNITED STATES

### 1929

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## LETTER OF SUBMITTAL

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DEPARTMENT OF COMMERCE,  
BUREAU OF FOREIGN AND DOMESTIC COMMERCE,  
*Washington, October 7, 1929.*

SIR: I have the honor to submit herewith for publication the fifty-first annual issue of the Statistical Abstract of the United States. As in previous years, this publication has been prepared in the Division of Statistical Research, of which E. Dana Durand is chief. It represents, however, a digest of data collected by all statistical agencies of the National Government, as well as those of a considerable number of private agencies and one or two States. Many of these offices and agencies have been of great assistance in furnishing advance data and also in the actual preparation of the tables used in the Abstract. Special mention in this connection is due the following offices of the Federal Government: The Bureau of the Census, the Bureau of Fisheries, and the Bureau of Mines of the Department of Commerce; the Bureau of Agricultural Economics and the Weather Bureau of the Department of Agriculture; the Bureau of Immigration and the Bureau of Labor Statistics of the Department of Labor; the Bureau of Education of the Department of the Interior; the Federal Board for Vocational Education; the Statistical Division of the Income Tax Unit and the Federal Farm Loan Bureau of the Treasury Department; the Veterans' Bureau; the Interstate Commerce Commission; the United States Shipping Board; and the Division of Analysis and Research of the Federal Reserve Board. Valuable aid has also been given by the Bureau of Railway Economics, Washington; the New York Produce Exchange; the Spectator Co., New York; Dun's Review, New York; and the Bureau of Canals, State of New York.

Comparative international tables showing statistics for the United States and foreign countries are published in Volume II of the Commerce Yearbook.

Respectfully,

O. P. HOPKINS,  
*Acting Director.*

To Hon. R. P. LAMONT,  
*Secretary of Commerce.*

# CONTENTS

	Page
Letter of submittal.....	ii
<b>1. AREA AND POPULATION</b>	
<b>Table</b>	
1. Territorial Expansion of the United States Date and area of accessions.....	1
2. Dates of Organization of Territories and Admission of States.....	1
3. Area of States and Geographic Divisions.....	2
4. Area and Population, United States: 1790 to 1928.....	2
5. Population of United States and Outlying Territories and Possessions: 1910 and 1920.....	3
6. Annual Mid-Year Estimates of Population: United States, 1850 to 1928, and Territories and Possessions, 1903 to 1928.....	3
7. Race, Nativity, and Parentage of Population: 1860 to 1920.....	4
8. Sex Distribution: Totals, 1860 to 1920; and by race, nativity, and parentage, 1900 to 1920.....	5
9. Age Distribution: Total, 1900 to 1920, and by sex and by race, nativity, and parentage, 1920.....	5
10. Population of Alaska, Hawaii, Porto Rico, and Philippine Islands: By Sex, Race, Nativity, and Age.....	6
11. Annual Mid-Year Estimates of Population: By States.....	7
12. Population by States: 1790 to 1920.....	8
13. Density of Population: By States, 1800 and 1850 to 1920.....	10
14. Age Distribution: By States.....	11
15. Race of Population: By States, 1860 to 1920.....	12
16. Race, Nativity, and Parentage: By States.....	14
17. Sex Distribution: By race and nativity, by States.....	16
18. Age Distribution: Percentages by States.....	18
19. Race, Nativity, and Parentage: Percentages by States.....	19
20. Persons 21 Years of Age and Over, by Sex, Race, Nativity, and Parentage, and Total Males 18 to 44 Years of Age, by States.....	20
21. Marital Condition: By sex, race, nativity, and parentage.....	22
22. Marital Condition: By sex, race, nativity, and parentage, by geographic divisions.....	23
23. Marital Condition of White and Negro Persons: For geographic divisions and for selected States.....	25
24. Marital Condition: By States.....	26
25. Illiterate Persons: By geographic divisions, distinguishing urban and rural, and by age groups.....	28
26. Illiterate Persons: By States.....	29
27. Percentage of Illiteracy: By States.....	30
28. Dwellings, Families, and Tenure of Homes: By States.....	31
29. Average Number of Persons per Dwelling and per Family, and Percentage Distribution of Families by Tenure of Home: By States.....	32
30. Foreign-born Population: By country of birth, 1870 to 1920.....	33
31. Foreign-born Whites: By country of birth.....	34
32. Foreign-born Population, Urban and Rural: By country of birth.....	34
33. Foreign White Stock, by Mother Tongue.....	35
34. Foreign-born Whites: By country of birth, by States.....	36
35. Citizenship of Foreign-born Whites: By principal countries of birth.....	40
36. Urban and Rural Population: By race, nativity, and parentage, and by sex and age groups.....	41
37. Urban and Rural Population: By States.....	42
38. Population in Places of 8,000 Inhabitants or more.....	43
39. Distribution of Population in Groups of Cities and in Rural Territory.....	43
40. Marital Condition of Urban and Rural Population.....	44
41. Urban and Rural Dwellings and Families.....	44
42. Cities of 50,000 or More Inhabitants. Mid-year Estimates of Population.....	45
43. Cities of 50,000 or More Inhabitants. Population by color, nativity, and parentage, and sex.....	46
44. Persons Engaged in Gainful Occupations: By sex and age groups.....	50
45. Persons Engaged in Gainful Occupations: By sex, age, race, nativity, and parentage.....	50
46. Persons Engaged in Each General Group of Occupations. By sex.....	51
47. Persons Engaged in Each General Group of Occupations. By sex and age.....	51
48. Males and Females Engaged in Gainful Occupations: By States, 1910 and 1920.....	52
49. Males Engaged in Each General Group of Occupations: By States.....	53
50. Females Engaged in Each General Group of Occupations: By States.....	54
51. Persons Engaged in Each Specified Occupation: By sex, nativity, and parentage.....	55
52. Shift in Occupations, 1880 to 1920.....	62
53. Religious Bodies: Churches and members, by denominations.....	63
54. Religious Bodies: Value of property, expenditures, and Sunday schools and scholars.....	64

## 2. DEFECTIVES, DELINQUENTS, AND DEPENDENTS

Table	Page
55 Defectives, Delinquents, and Dependents. By States.....	65
56 Deaf Mute Population, 1880 to 1920.....	66
57 Deaf-Mutes by Sex, Race, and Nativity.....	66
58 Cause of Deafness and Age at Which Hearing was Lost by Deaf-Mutes.....	66
59 Education, Ability to Read Lips, and Means of Communication of Deaf-Mutes.....	67
60 Occupations of Deaf-Mutes 10 years of Age and Over.....	67
61 Blind Population Enumerated, 1880 to 1920.....	68
62 Blind Population, by Sex, Race, and Nativity.....	68
63 Cause of Blindness and Age at Which Vision was Lost by Blind.....	68
64 Education and Ability to Read Raised Type of Blind 5 Years of Age and Over.....	69
65 Occupations of Blind Population 10 Years of Age and Over.....	69
66 Paupers Enumerated in Almshouses, 1880 to 1923.....	70
67 Age Distribution of Paupers Enumerated in Almshouses, 1880 to 1923.....	70
68 Paupers Admitted to Almshouses and Number of Departures and Deaths during 1922.....	70
69 Mental Patients, Feeble-minded and Epileptics in State Institutions and Prisoners in State and Federal Prisons and Reformatories, 1904 to 1928.....	71
70 State Hospitals for Mental Disease: First Admissions, 1922, 1926, and 1927, by Psychosis.....	71
71 Patients Enumerated in Hospitals for Mental Disease, 1880 to 1923.....	72
72 Patients Enumerated in Hospitals for Mental Disease, 1890 to 1923: By Age Groups.....	72
73 Patients Admitted to Hospitals for Mental Disease during 1922: By Psychosis.....	72
74 State Hospitals for Mental Disease and State Institutions for the Feeble-minded and Epileptics: Admissions during the Year and Number Present, by States.....	73
75 Prisoners Enumerated, 1880 to 1923.....	74
76 Prisoners Enumerated January 1, 1923, and Commitments during the Year, by Classes.....	74
77 Prisoners and Juvenile Delinquents Enumerated and Commitments.....	74
78 Prisoners Enumerated and Commitments, by Principal Offenses.....	75
79 Prisoners Enumerated and Commitments: By Nature and Length of Sentence.....	75
80 State and Federal Prisons and Reformatories Admissions and Number Present, by States.....	76

## 3. VITAL STATISTICS

81. Deaths: Number and rates, 1880 to 1927.....	77
82. Deaths: Rates by sex and age groups, 1901 to 1927.....	78
83. Deaths: Crude rates, 1913 to 1927, by race, distinguishing cities and rural area.....	79
84. Deaths: Number in the death registration States.....	79
85. Deaths: Rates by States.....	80
86. Deaths: Crude and adjusted rates, by registration cities of 100,000 or more inhabitants.....	81
87. Deaths: Number and rates, by important causes.....	82
88. Births, Deaths, and Deaths under 1 Year of Age: By sex.....	83
89. Number of Births and Excess of Births over Deaths By States.....	84
90. Birth and Death Rates. 1918 to 1927.....	85
91. Birth Rates and Excess of Births Over Deaths: By States.....	85
92. Births and Stillbirths By Legitimacy: By States.....	87
93. Deaths of Infants under 1 Year of Age: Number and rates, by States.....	88
94. Deaths of Infants under 1 Year of Age: Rates, by principal causes.....	89
95. Deaths of Infants under 1 Year of Age: Rates, according to age subdivisions.....	90
96. Homicides and Suicides: Number and rate in cities having 100,000 population or more.....	90
97. Birth and Death Registration Area: States included with year when each was added.....	91
98. Marriages and Divorces: Number granted and ratio of divorces to marriages.....	91
99. Marriages and Divorces: Number granted and ratio of divorces to marriages by States.....	92

## 4. IMMIGRATION AND EMIGRATION

100. Immigration 1821 to 1928.....	93
101 Admissions and Departures of Aliens: 1910 to 1928.....	93
102. Immigrants Admitted, Debarred, and Departed.....	94
103 Immigrant Aliens Admitted. By occupation, amount of money brought, etc.....	94
104 Immigrant Aliens Admitted and Emigrant Aliens Departed, by Sex and Age; and Illiteracy of Immigrants.....	94
105 Immigration. By countries of last residence, by decades, 1831 to 1920.....	95
106. Immigrant Aliens Admitted and Emigrant Aliens Departed: By country of last or future residence.....	96
107. Immigrant Aliens Admitted and Emigrant Aliens Departed: By race or people.....	98
108. Immigrant Aliens Admitted: Percentages, by race or people.....	100
109 Immigrant Aliens Admitted and Emigrant Aliens Departed: By race or people, and by sex.....	100
110 Aliens Admitted: By classes under the immigration act of 1924, and by region of birth.....	101
111. Immigration Quotas and Aliens Admitted and Charged to Quotas: By Nationality.....	102
112. Quota and Nonquota Immigrants Admitted By Country of Birth.....	103
113. Arrivals and Departures of Aliens and Citizens.....	108

Table	Page
114 Arrivals of Passengers from Foreign Countries at the Principal Seaports.....	104
115 Departures of Passengers from Seaports of the United States for Foreign Countries.....	104
116. National Origin of the White Population of the United States.....	105
117 Immigration Quotas on Basis of National Origin.....	105

### 5. EDUCATION

118. Summary of Public Elementary and Secondary Schools: 1870 to 1926.....	107
119. Elementary, Commercial, Secondary, Normal School, and College Enrollment.....	108
120 Public High Schools and Private High Schools and Academies: 1890 to 1926.....	108
121. Normal Schools and Teachers' Colleges.....	109
122. Elementary and Secondary Schools, Public and Private: Enrollment and attendance, by States.....	110
123 Public Elementary and Secondary Schools: Number and salary of teachers, by States.....	112
124 Public Elementary and Secondary Schools: Expenditures, by States.....	113
125 Public Elementary and Secondary Schools: White and colored enrollment in 16 States.....	114
126 Public High Schools and Private High Schools and Academies: Enrollment by States.....	114
127 Public High Schools and Private High Schools and Academies: Teachers and pupils, by States.....	115
128 School Statistics of Noncontiguous Territory.....	116
129. Normal Schools and Teachers' Colleges: By States.....	117
130 Universities, Colleges, and Professional Schools: Instructors, students, and income, by States.....	118
131. Universities, Colleges, and Professional Schools: Professional students courses and States.....	120
132. Universities, Colleges, and Professional Schools: Libraries and property, by States.....	121
133 Nurse Training, Commercial, Summer, and Reform Schools: By States.....	122
134 Schools for the Blind, the Deaf, and the Feeble-Minded: By States.....	123
135 Schools for the Blind, the Deaf, and the Feeble-minded, 1910, 1922, and 1926.....	124
136 Vocational Education: Teachers and pupils, by class of school.....	124
137. Vocational Education: Pupils enrolled, by States.....	125
138. Vocational Education: Pupils enrolled in vocational teacher-training courses, by States.....	126
139. Vocational Education: Expenditures under the vocational education act.....	127
140. Vocational Rehabilitation of Persons Disabled in Industry or Otherwise.....	128

### 6. PUBLIC LANDS AND NATIONAL PARKS

141 Original and Perfected Entries of Public Lands and Area Patented: By classes.....	129
142 Original Entries of Public and Indian Lands under All Acts: By States.....	129
143. Homesteads: Original entries by States, 1911 to 1928, and final entries, entire area, 1863 to 1928.....	130
144 Stock-Raising Homesteads: Original entries from passage of act to June 30, 1928, by States.....	130
145. Timber and Stone, Coal, Mineral, and Desert-Land Entries: By States.....	131
146. Lands Certified or Patented on Account of Railway and Wagon Road Grants: By States.....	131
147. Lands Certified or Patented on Account of Railway or Wagon Road Grants: 1850 to 1928.....	132
148. Land Grants to States for Educational and Other Purposes: By States.....	133
149. Acreage of Public and Indian Lands Patented: By States and classes.....	134
150 Receipts under the Mineral Leasing Act of February 25, 1920.....	134
151. Acreage of Public Lands withdrawn from Settlement and Restorations therefrom.....	135
152 Public Land: Areas Unappropriated and Unreserved.....	136
153. Area of Indian Reservations and Indian Population.....	136
154 National Parks and National Monuments, with Description.....	137

### 7. CLIMATE

155. Climatic Conditions: Selected cities in the United States.....	141
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### 8. ARMY, NAVY, CIVIL SERVICE, PENSIONS, VETERANS' BUREAU ACTIVITIES, ELECTIONS, ETC.

156 Army of the United States: Strength of component parts, 1890 to 1928.....	153
157. National Guard: Organized strength, by States.....	154
158 Navy, Marine Corps, and Naval Reserve: Organized strength, 1903 to 1928.....	154
159. Army: Estimated strength, specified months, 1917 and 1918.....	155
160 Army: Comparative strength on April 1, 1917, and November 11, 1918, by branches.....	155
161. Navy: Number and displacement of vessels fit for service, 1906 to 1928.....	155
162. Navy: Number and displacement of vessels, by classes, December 31, 1928.....	156
163. American Red Cross: Expenditures.....	157
164. American Red Cross: Annual roll call, by States.....	157
165. Pensions: Number of War pensioners on rolls and disbursements for pensions.....	158
166. Veterans' Bureau: Disbursements from appropriations and trust funds.....	159
167. Veterans' Insurance and Compensation: Death and disability awards.....	160
168. Government Life Insurance: Annual premium rates by specified forms of insurance.....	160
169. Government Life Insurance: Insurance in force and premiums collected.....	161
170. Government Life Insurance: Converted insurance issued and in force, by plan.....	161
171. Government Life Insurance Fund: Financial statement.....	161

Table	Page
172. Vocational Rehabilitation of Disabled Veterans: Number entered, discontinued, and in training.....	162
173. Hospitalization: United States Veterans' Bureau beneficiaries.....	162
174. Adjusted Compensation Awards: Number and amount to June 30, 1928.....	163
175. Civil Service Retirement: Summary of operations.....	163
176. Civil Service: Growth of the executive civil service and the merit system.....	164
177. Civil Service: Number of employees, by departments and offices.....	164
178. Civil Service: Examinations, appointments, and competitive positions, 1883 to 1928.....	165
179. Popular Vote for Presidential Electors: By parties, totals, 1888 to 1928, and by States, 1928.....	166
180. Electoral Vote for President: By principal political parties and by States.....	167
181. Congressional Representation: Ratios and apportionment, by States, at each census.....	168

## 9. NATIONAL GOVERNMENT FINANCES

182. Ordinary Receipts and Expenditures Chargeable Against Them (Cash Basis): 1916 to 1929.....	169
183. Receipts and Expenditures: Summary, 1791 to 1928.....	170
184. Ordinary Receipts: By major classes, 1791 to 1928.....	171
185. Ordinary Expenditures: By major classes, 1791 to 1928.....	172
186. Receipts: By sources, 1927 and 1928.....	173
187. Expenditures: By detailed purposes, 1927 and 1928.....	175
188. Ordinary Receipts and Expenditures Chargeable Against Them: By months.....	179
189. Expenditures Chargeable Against Ordinary Receipts: By major classifications, 1916 to 1928.....	180
190. Appropriations by the Congress of the United States, 1918 to 1929.....	182
191. Internal Revenue: Amounts collected from principal sources, 1863 to 1928.....	183
192. Internal Revenue: Receipts from each specific source, 1923 to 1928.....	184
193. Internal Revenue: Income and profits tax and miscellaneous receipts, by States.....	185
194. Personal and Corporation Income Tax Returns: Summary, 1913 to 1926.....	186
195. Personal and Corporation Income Tax Returns: Number, net income and tax, by States.....	186
196. Corporation Income Tax Returns: Gross receipts of corporations by industrial groups.....	187
197. Corporation Dividends: By industrial groups.....	188
198. Corporation Income Tax Returns: Sources of income and nature of deductions, by classes of corporations.....	189
199. Corporation Income Tax Returns: Number and net income by income classes and industrial groups.....	190
200. Corporation Income Tax Returns: Net income, and tax yield, by States.....	191
201. Corporation Income Tax Returns: Analysis, by States.....	192
202. Corporation Income Tax Returns: By industrial groups, 1918 to 1926.....	194
203. Corporation Income Tax Returns: Gross and net income, by industries.....	196
204. Assets and Liabilities of Corporations: By industrial groups.....	197
205. Personal Income Tax Returns: Analysis, 1919 to 1926.....	199
206. Personal Income Tax Returns: Number and net income, by family relationship.....	199
207. Personal Income Tax Returns: Number, net income, tax, and average rate, by income classes.....	200
208. Personal Income Tax Returns: Analysis, by income classes.....	201
209. Personal Income Tax Returns: Total income by income classes, distributed by sources.....	202
210. Personal Income Tax Returns: Total income by States, distributed by sources.....	203
211. Personal Income Tax Returns: Number, net income, and tax yield, by States.....	204
212. Personal Income Tax Returns: Analysis, by States.....	206
213. Federal Estate Tax Returns: Distribution by size of net estate.....	208
214. Public Debt: Amount outstanding by specific loans, June 30, 1928.....	209
215. Public Debt: Summary of transactions in interest-bearing securities during 1928.....	212
216. Public Debt: Totals, 1800 to 1929, and by classes, 1917 to 1929.....	213
217. Public Debt: Transactions during 1917 to 1928.....	214
218. Payments and Loans of the United States Government to Carriers.....	214
219. Obligations of Foreign Governments to the United States: Amount of indebtedness and payments received.....	215
220. Obligations of Foreign Governments to the United States: Original and funded debt and present value of payments to be received.....	216
221. Money Cost of the World War to the United States Government.....	216
222. Securities Owned by the United States Government.....	217

## 10. STATE, CITY, AND LOCAL GOVERNMENT FINANCES

223. Taxes: Total levies of ad valorem general property taxes of all civil divisions, by States.....	219
224. Assessed Valuation of Property Subject to General Property Tax: By States.....	220
225. Public Debt: All classes of Government organizations.....	220
226. State Finances: Receipts and cost payments, all States combined, by principal classes.....	221
227. State Finances: Receipts and cost payments per capita, all States combined.....	221
228. State Finances: Total revenue receipts and governmental cost payments for operation, maintenance, and interest, by States, 1915 to 1927.....	222

# CONTENTS

VII

Table	Page
229 State Finances Revenue receipts and governmental cost payments, by States, 1927.....	223
230 State Debts: Gross debt less sinking-fund assets, total and per capita, by States.....	224
231 State Debts. By classes and by States.....	225
232 Bonded Indebtedness of States By purpose of issue.....	226
233 State Debts: Gross debt, sinking-fund assets, and debt less sinking-fund assets of all States.....	227
234 Local Government Debt by Classes of Civil Divisions: By States.....	227
235 Debts of Local Governments: Combined debt of all civil divisions, by States.....	228
236 Debts of States and Local Governments Combined By States.....	229
237 Finances of Cities Receipts and cost payments of cities, by size groups.....	230
238 Finances of Cities Per capita receipts and cost payments of cities, by size groups.....	231
239 Finances of Cities Per capita receipts, cost payments, and net debt of 146 cities combined.....	231
240 Finances of Cities: Receipts and cost payments of each principal city.....	232
241 Finances of Cities. Receipts of each principal city, by sources.....	234
242 Finances of Cities. Governmental cost payments of each principal city, by objects.....	236
243. Finances of Cities: Net debt of each principal city.....	240
244. Finances of Cities: Receipts, payments, and debt of each city of 30,000 to 100,000 inhabitants....	241
<b>11. MONEY AND BANKING</b>	
245. Coinage of the United States Mint 1793 to 1928.....	245
246. Money in Circulation, by kinds, 1914 to 1928.....	245
247. Money: Stock in the United States, by kinds, 1860 to 1928.....	246
248 Money: Stock and amount in Treasury and in circulation, 1800 to 1928.....	247
249. Federal Reserve Banks: Total and principal assets of all banks and of each bank.....	248
250. Federal Reserve Banks: Principal liabilities of all banks and of each bank.....	249
251 Federal Reserve Banks. Discount and open-market operations.....	250
252. Federal Reserve Banks. Bills discounted for member banks, by States.....	251
253. Federal Reserve Banks Holdings of purchased acceptances.....	252
254 Federal Reserve Banks Holdings of United States securities.....	252
255 Federal Reserve Banks. Holdings of discounted bills, by classes and maturities.....	253
256 Discount Rates of each Federal Reserve Bank 1916 to 1928.....	254
257. Federal Reserve Gold Settlement Fund. Transactions through the fund, 1915 to 1928.....	256
258 Federal Reserve Gold Settlement Fund: Transactions through the fund, by districts.....	256
259 Federal Reserve Agents' Gold Fund: Summary of transactions.....	257
260 Federal Reserve Banks: Operations of branches.....	257
261. Federal Reserve Banks: Volume of operations in principal departments.....	258
262 Federal Reserve Banks: Average annual rate of earnings on bills and securities.....	259
263. Federal Reserve Banks: Profit and loss account.....	259
264 Federal Reserve Banks: Clearing operations and number of banks on par list.....	260
265. Federal Reserve System Number, capital and surplus, and total resources of member banks..	260
266. Federal Reserve System Principal assets and liabilities of member banks in leading cities....	261
267 Federal Reserve System Principal assets and liabilities of all member banks.....	262
268 Federal Reserve System: Loans and investments of all member banks, by classes.....	264
269 All Reporting Banks: Number, resources, capital and surplus, and deposits.....	264
270 All Reporting Banks: Principal resources and liabilities, by States, June 30, 1928.....	265
271 All Reporting Banks. Principal resources and liabilities by States, December 31.....	266
272 Banks: Number, resources, capital and surplus, and deposits in each class of banks.....	267
273. National Banks: Principal resources and liabilities, June 30, 1863 to 1928.....	268
274 National Banks. Principal resources and liabilities, December 31, 1911 to 1928.....	269
275 National Banks Number and total resources, by States.....	270
276 National Banks Principal resources and liabilities, by States.....	271
277. National Banks. Loans and discounts, by reserve cities and States.....	272
278. National Banks. Classification of loans and discounts.....	273
279. National Banks. Securities owned, by classes.....	273
280. National Banks: Dividends and net addition to profits, with ratios.....	274
281. Banks Other Than National: Resources and liabilities, 1910 to 1928.....	274
282. Savings Deposits and Savings Depositors in Banks and Trust Companies.....	275
283. Savings Deposits and Savings Depositors in Banks and Trust Companies: By States.....	276
284. Savings Banks. Number of depositors and amount of savings deposits, 1820 to 1910.....	277
285. Mutual Savings Banks: Number of depositors and amount of deposits, by States.....	277
286. Postal Savings Summary of business since the establishment of the system.....	278
287. Postal Savings Summary of business, by States.....	278
288. Building and Loan Associations: Number, membership, and assets, totals and by States.....	279
289. Certain Major Items of Savings of the United States.....	280
290 Federal and Joint-Stock Land Banks Net mortgage loans outstanding.....	280
291. Federal Land Banks: Principal assets and liabilities of each bank.....	280
292 Federal Land Banks: Loans submitted for bond issue, by districts and States.....	281

	Page
Table	
293 Federal Land Banks: Purposes of loans submitted since organization, by districts.....	282
294. National Farm Loan Associations: Loans made since organization, by States.....	282
295. Joint-Stock Land Banks Principal assets and liabilities of each bank.....	283
296 Joint-Stock Land Banks' Loans submitted for bond issue since organization, by States.....	284
297 Federal Intermediate Credit Banks Principal assets and liabilities.....	285
298 War Finance Corporation: Status of advances made under all sections of the act.....	285
299 Clearing House Exchanges Summary for United States, 1882 to 1928.....	286
300. Clearing House Exchanges By cities.....	287
301 Debits to Individual Accounts in 141 Principal Cities: By districts and by months.....	289
302 Debits to Individual Accounts in Each of 141 Principal Cities.....	290
12. WEALTH	
303 National Wealth, Estimates Total 1850 to 1922, and by classes, 1900 to 1922.....	293
304 Wealth: Estimated value of tangible property in each State, by classes.....	294
305 Wealth Estimated value of all tangible property in each State, total and per capita.....	296
13. BUSINESS FINANCE	
306 Exchange Rates in New York for Cable Transfers on Principal Financial Centers.....	297
307. Exchange Rates in New York for Cable Transfers on Principal Financial Centers: By months.....	298
308. Interest Rates: Call money, time loans, and acceptances, New York, by quarters or months.....	300
309. Interest Rates: Call money, time loans, and acceptances, New York, by weeks.....	301
310. Fire and Marine Insurance Business: Major statistical items.....	302
311. Fire Insurance Outstanding risks, 1877 to 1927.....	303
312. Fire and Lightning Insurance Business: Detailed statistics, 1920 to 1927.....	303
313. Fires: In each city of 100,000 or more inhabitants.....	304
314. Fire Losses: Estimated United States total and total for reporting cities.....	305
315 Life Insurance. Operations of all companies of the United States since organization.....	305
316. Life Insurance. Summary of financial condition and policy account.....	306
317. Life Insurance Detailed financial condition and business transacted.....	306
318. Life Insurance Summary of financial condition and policy accounts of companies reporting to New York insurance department, 1859 to 1927.....	308
319 Life Insurance Issued and Terminated. With mode of termination.....	309
320. Life Insurance Issued and Terminated Annually by Surrender, Lapse, and Decrease.....	309
321. Life Insurance: Ordinary and industrial insurance written, by States.....	310
322. Life Insurance: Ordinary and industrial insurance in force, by States.....	311
323. Life Insurance of Fraternal Orders.....	312
324. Mutual Accident and Sick Benefit Associations. Financial condition and business.....	313
325. Casualty, Surety, and Miscellaneous Insurance Financial condition and business.....	313
326. Casualty, Surety and Miscellaneous Insurance Companies Premiums and losses, by classes.....	314
327. Dividend and Interest Payments Corporate and governmental.....	314
328. Capital Issues. Corporate, foreign government, farm loan, and State and municipal.....	315
329. Capital Issues of Corporations.....	316
330 Brokers' Loans Outstanding.....	316
331. New York Stock Exchange Transactions.....	317
332 Price Movements of Stocks and Bonds on the New York Stock Exchange.....	317
333 Indexes of Value of Sales of Chain Stores: By branches of business.....	317
334 Indexes of Value of Wholesale Sales: By branches of business, and by months.....	318
335. Indexes of Value of Sales of Department Stores: By months, and by districts.....	318
336 Commercial Failures Annually since 1857 and monthly from 1918 to 1928.....	319
337. Commercial Failures: Aggregates, by States.....	320
338 Commercial Failures, by General Classes of Business, and Bank Suspensions: By States.....	321
339. Commercial Failures, by Specific Branches of Business, and Bank Suspensions.....	322
14. PRICES	
340 Wholesale, Retail, and Farm Prices Index numbers, monthly.....	323
341 Wholesale Prices by Commodity Groups. Index numbers.....	324
342 Wholesale Prices: Index numbers, 1860 to 1889.....	325
343. Wholesale Prices by Commodity Subgroups: Index numbers.....	325
344 Wholesale Prices of Leading Commodities.....	326
345 Wholesale Price Indexes, Bradstreet's, Dun's, and Bureau of Labor Statistics.....	329
346. Cost of Living in the United States. Index numbers, by groups.....	329
347. Cost of Living in Principal Cities: Index numbers.....	330
348 Index Numbers of the Retail Price of Food and Purchasing Power of the Dollar.....	331
349. Retail Food Price Index Numbers for 39 Individual Cities.....	331
350. Retail Prices of Principal Individual Articles of Food: Actual and relative.....	332
351. Annual Average Unit Values of Important Articles Exported.....	333
352 Annual Average Unit Values of Important Articles Imported.....	334



**15. WAGES, HOURS OF LABOR, AND EMPLOYMENT**

Table	Page
353 Wages and Hours of Labor in Specified Manufacturing Industries.....	337
354. Wages per Hour in the Coal Mining Industry.....	340
355 Wages and Hours of Labor in Specified Manufacturing and Mining Industries.....	341
356 Wages of Common Labor in Road Building.....	341
357 Index Numbers of Union Wage Rates and Hours of Labor.....	342
358 Index Numbers of Union Wage Rates and Hours of Labor: Specified trades.....	342
359 Average Union Rates of Wages in Specified Trades.....	344
360 Employment and Pay Roll Indexes in Manufacturing Establishments.....	345
361 Operation Ratios in Manufacturing Establishments.....	345
362 Employment and Pay Roll Indexes in Manufacturing Establishments: By geographic divisions.....	345
363 Employment and Pay Roll Indexes: Major groups of manufacturing industries.....	347
364 Employment and Pay Roll Indexes Principal Manufacturing industries.....	348
365 Factory Employment Indexes in Specified States.....	349
366 Weekly Earnings of Factory Labor in Specified States.....	350
367 Average Weekly and Hourly Earnings in Manufacturing Industries.....	350

**16. POSTAL SERVICE**

368 Statistical Summary of the Postal Service: 1800 to 1928.....	351
369. Revenues, Postal Service By principal items.....	352
370. Postal Money-order business.....	352
371. Expenditures, Postal Service: By principal items.....	353
372. Transportation of Domestic Mails, and Number and Salaries of Railway Mail Employees.....	353
373. City and Rural Free Delivery and Star Route Service.....	354
374. Postal Service Volume of transactions in stamped paper and of mail carried, by classes.....	354
375. Gross Receipts, Cost of City Delivery Service and of Clerk Hire at Principal Offices.....	355
376 Postal Service: Number of offices, mileage of rural free delivery, and gross receipts, by States.....	356
377 Money Orders Issued and Paid, by States.....	357

**17. TELEPHONE, TELEGRAPH, AND CABLE SYSTEMS**

378 Telephone Systems Equipment, traffic, employees, wages, revenue, and investment.....	359
379. Telephone Systems Miles of wire and number of calls and telephones, by States.....	360
380 American Telephone & Telegraph Co. and Associated Companies: Telephone stations and miles of wire.....	361
381 American Telephone & Telegraph Co. and Associated Companies: Summary of statistics.....	361
382. Telephone Systems Reports to Interstate Commerce Commission.....	362
383. Wireless Telegraph Systems Summary of statistics.....	362
384 Telegraph and Cable Systems Reports to the Interstate Commerce Commission.....	363
385 Land and Ocean-Cable Telegraph Systems Combined. Financial statistics.....	363
386 Land and Ocean-Cable Telegraph Systems: Financial statistics.....	364
387 Land and Ocean-Cable Telegraph Systems Combined Equipment, traffic, employees, and wages.....	364
388 Land and Ocean-Cable Telegraph Systems: Equipment, traffic, employees, and wages.....	365
389 Western Union Telegraph Co.: Mileage of lines and wires, number of offices, and finances.....	365

**18. POWER—ELECTRIC AND OTHER**

390 Annual Supply of Energy from Mineral Fuels and Water Power in the United States.....	367
391 Electricity Produced and Consumption of Fuel by Public Utility Power Plants.....	367
392 Production of Electric Power by Public Utility Power Plants, by States.....	368
393. Central Electric Stations Summary of statistics for all stations combined.....	369
394. Central Electric Stations Summary of statistics for commercial and municipal stations.....	369
395. Central Electric Stations Statistics of commercial and municipal stations, by States.....	370
396. Central Electric Stations Financial statistics.....	372
397 Proportion of "Electrification" of Factory Power Equipment.....	372
398 Retail Prices of Electricity for Household Use in Each of 35 Cities.....	373
399 Developed and Potential Water Power of the United States.....	374

**19. PUBLIC ROADS AND MOTOR VEHICLES**

400 Rural Highways Summary of statistics, 1921 to 1927.....	375
401 Rural Highways. Mileage December 31, 1904 to 1927, by States.....	376
402 Rural Highways. Mileage December 31, 1927, and construction, 1925 to 1927, by States.....	377
403 State Highway Systems: Mileage December 31, 1927, by States.....	378
404 State Highway Systems: Construction during 1926 and 1927, by States.....	379
405. Rural Highways. Expenditures under State departments, by States.....	380
406. Rural Highways: Total State and local expenditures, by States.....	381
407. Rural Highways. Funds available for State and local governments.....	382
408. Rural Highways: Distribution of expenditures, State and local governments, by States.....	383
409. Highway construction under Federal aid: Status as of December 31, 1928.....	384

Table	Page
410. Production and Registration of Motor Vehicles. 1900 to 1928.....	385
411. Production of Open and Closed Cars: By price groups.....	385
412. Production of Motor Vehicles, by months.....	386
413. State Gasoline Taxes: Gross receipts and tax.....	386
414. Motor Vehicle Registration: By States.....	387
415. Registrations of and Revenues from Motor Vehicles: By States.....	388
416. Automobile Fatalities: Number and death rate in entire registration area, 1911 to 1927.....	389
417. Automobile Fatalities: Number and death rate in registration States and cities.....	390
<b>20. STEAM AND ELECTRIC RAILWAYS AND EXPRESS COMPANIES</b>	
418. Railway Mileage Owned and Mileage Operated: By classes of track, 1890 to 1927.....	393
419. Railway Mileage Owned: By States.....	394
420. Railway Mileage Owned and Operated: Total, 1842 to 1927.....	395
421. Mileage Operated and Equipment: By districts.....	395
422. Mileage of Road and Tracks Operated: By districts.....	396
423. Railway Equipment Installed and Retired from Service.....	396
424. Railway Equipment in Service, All Reporting Companies.....	397
425. Classification of Railway Cars in Service.....	397
426. Freight-Car Performance and Equipment Condition: By months.....	398
427. Receiverships of Railways.....	398
428. Railway Employees: Number and compensation.....	399
429. Railway Employees: Number and compensation, by districts and classes.....	399
430. Capitalization of Railroads.....	402
431. Railway Stock Outstanding, Dividends, and Interest.....	402
432. Railway Securities Outstanding: By districts and classes of securities.....	403
433. Property Investment, Income, Interest, and Dividends: Operating railroads.....	403
434. Freight Traffic: Train and car movement.....	404
435. Freight Traffic: Tonnage and revenue.....	405
436. Revenue and Traffic Statistics: By years and months.....	406
437. Passenger Traffic: Passengers carried and passenger revenue.....	407
438. Revenue, Expenses, and Income of Operating Companies with Averages Per Mile of Line.....	408
439. Freight Traffic: Tonnage and revenue, 1890 to 1900.....	409
440. Revenues and Expenses of Operating Companies, 1890 to 1900.....	409
441. Operating Revenues and Expenses of All Classes of Railways.....	409
442. Income Account: Totals, and by districts.....	410
443. Taxes and Special Assessments on Railways: By States.....	411
444. Principal Railway Companies: Mileage, traffic, revenues, and expenses of each company.....	412
445. Revenue Freight Carried: By commodity groups.....	414
446. Revenue Freight Carried: By principal commodities.....	416
447. Car Loadings: All commodities and commodity groups, by months.....	417
448. Steam Railway Accidents, by Causes.....	418
449. Persons Killed and Injured in Railway Accidents.....	419
450. Consumption of Fuel, and Replacements of Rails and Ties.....	419
451. Express Companies: Income account.....	420
452. The Pullman Co : Abstract of operations.....	420
453. Alaskan Government Railroads: Passenger and freight service.....	421
454. Electric Railways: Summary of operations.....	421
455. Electric Railways: Mileage, equipment, output of electricity, traffic, employees, and wages.....	422
456. Electric Railways: Financial statistics.....	423
457. Electric Railways: Mileage, traffic, revenue, and kilowatt hours generated, by States.....	424
458. Electric Railways: Mileage and cars and busses operated, by States.....	426
459. Electric Railways: Mileage of elevated and subway and tunnel track, by States.....	427
460. Electric Railways: Receiverships.....	427
<b>21. WATERWAYS, WATER-BORNE COMMERCE, AND OCEAN SHIPPING</b>	
461. Cargo Tonnage of Water-Borne Commerce of the United States: Aggregates.....	429
462. Commerce of Principal United States Ocean Ports.....	430
463. Great Lakes: Commerce of the principal ports.....	430
464. Commerce of the Principal Rivers, Canals, and Connecting Channels.....	431
465. Sault Ste. Marie Canals: General traffic statistics.....	433
466. New York State Canals: Tonnage of freight moved.....	434
467. Principal Commodities Carried on the Ohio River.....	434
468. Ohio River Traffic: Tonnage, ton-mileage, and value of freight.....	435
469. Lower Mississippi River Traffic: Freight, by sections.....	435
470. Merchant Marine: Number and tonnage of vessels, by class and utilization, 1789 to 1928, and by location, power, and material, 1900 to 1928.....	436
471. Merchant Marine: Number and tonnage of larger seagoing vessels, by classes and size.....	437

# CONTENTS

# XI

Table	Page
472 Shipbuilding: Number and tonnage of vessels built, 1797 to 1928.....	437
473. Shipbuilding: Number and tonnage of vessels built, by class and section where built.....	438
474. Merchant Vessels Launched: World total and United States.....	438
475 Merchant Marine of the World and the United States.....	439
476 Panama Canal: Expenses and revenues.....	439
477 Commercial Traffic Through the Panama Canal: By nationality of vessel.....	440
478 Commercial Traffic Through the Panama Canal: Summary, by direction.....	440
479. Cargo Tonnage Through the Panama Canal: By origin and destination.....	441
480 Lives Lost by Accident at Sea: By causes.....	441
481. United States Coast Guard: Abstract of work performed and expenditures.....	441
482 Marine Wrecks and Casualties Occurring to Vessels of the United States.....	442
483. Shipping Board and Shipping Board Merchant Fleet Corporation: Net appropriations and allotments from inception to July 1, 1928.....	442
484. Shipping Board and Shipping Board Merchant Fleet Corporation: Profit and Loss, 1928.....	443
485. Shipping Board Vessels Sold.....	443
486. Vessels Controlled by Shipping Board Merchant Fleet Corporation.....	444
487. Tonnage of Water-Borne Commerce, including foreign and intercoastal traffic and commerce of noncontiguous territories.....	444
488. Tonnage of Water-Borne Imports and Exports: By coastal districts and flag of carrier vessel.....	445
489. Tonnage of Water-Borne Imports and Exports: By foreign trade regions, by flag of carrier vessels, and United States coastal districts.....	446
490. Tonnage of Water-Borne Imports and Exports: By individual countries.....	447
491 Tonnage of Water-Borne Imports and Exports: By States and ports.....	449
492. Tonnage of Water-Borne Imports and Exports: By major commodities and coastal districts.....	451
493. Vessels Entered and Cleared: 1840 to 1928.....	452
494. Vessels Entered and Cleared: By customs districts and groups of ports.....	453
495. Vessels Entered at all Ports, Seaports, and Northern Border Ports: By classes.....	454
496. Vessels Cleared at all Ports, Seaports, and Northern Border Ports By classes.....	455
497. Vessels Entered and Cleared at Seaports: By countries of origin and destination.....	456
498. Vessels Entered and Cleared at Seaports: By nationality of vessel.....	457
499. Exports and Imports of Merchandise: By method of carriage, 1830 to 1928.....	458
500. Exports and Imports of Merchandise By method of carriage and nationality of vessel.....	456
<b>22. FOREIGN COMMERCE</b>	
501. Summary of Foreign Trade: 1911 to 1928.....	461
502 Merchandise Trade of Continental United States with Foreign Countries and with Outlying Territories and Possessions.....	462
503 Production of Exportable Goods and Proportion Exported.....	463
504 Exports of Manufactured Goods in Relation to Total Production.....	463
505 Indexes of Changes in Quantity, Price, and Value of Imports and Exports.....	464
506 Exports and Imports of Gold and Silver: By months.....	464
507. Gold under Earmark for Foreign Account in the United States.....	465
508 Exports and Imports of Merchandise: By months.....	466
509. Estimated Balance of International Payments of the United States.....	467
510 Exports and Imports of Merchandise with Trade Balances: 1791 to 1928.....	468
511 Exports and Imports of Gold, Silver, and Merchandise, with balances: 1821 to 1928.....	469
512 Supplement to Tables 510 and 511: Calendar years 1900 to 1915 and fiscal years 1916 to 1928.....	470
513 Merchandise Exports and Imports with Trade Balances: Individual years, 1790 to 1884.....	471
514 Per Capita Exports and Imports: 1790 to 1928.....	471
515 Imports Entered for Consumption and Duties Thereon: 1821 to 1928.....	472
516. Percentage Distribution of Exports and Imports: By economic classes, 1821 to 1928.....	473
517. Exports and Imports of Merchandise By economic classes, 1821 to 1928.....	474
518. Imports, Free and Dutiable, and Per Cent Free: By economic classes, 1821 to 1928.....	476
519 Supplement to Tables 518 and 527. Free and dutiable imports adjusted for values of wheat and wool classified as dutiable but entered free.....	478
520 Percentage Distribution of Exports and Imports: By continents, 1821 to 1928.....	479
521 Exports and Imports Distributed by Continents: 1821 to 1928.....	480
522. Supplement to Tables 520, 521, and 528: Adjusted exports to Canada, North America, and Europe.....	482
523 Supplement to Tables 524, 525, and 526: Adjusted exports to North America and Europe, by economic classes.....	482
524 Foreign Trade with Each Continent: By economic classes.....	483
525 Per Cent Each Continent Furnishes of Total Trade in Each Economic Class.....	484
526 Per Cent Each Economic Class Forms of Total Trade with Each Continent.....	484
527. Free and Dutiable Imports by Countries.....	485
528 Exports and Imports of Merchandise: By continents, commercial regions, and countries.....	486
529 Exports and Imports of Merchandise: By groups of customs districts, 1860 to 1928.....	492
530. Exports and Imports of Merchandise: By principal customs districts, 1860 to 1928.....	493

Table	Page
531 Exports and Imports of Merchandise and Duties By customs districts.....	496
532 In Transit and Transshipment Trade By continents and principal countries.....	497
533. Customs District through Which In Transit and Transshipment Trade is Shipped.....	497
534 Principal Articles of United States Merchandise Exported: 1821 to 1928.....	498
535. Imports of Principal Commodities: 1821 to 1928.....	500
536 Exports and Imports by Groups and Subgroups.....	502
537. Exports of United States Merchandise: By commodity groups and articles.....	504
538 Imports of Merchandise By commodity groups and articles.....	550
539 Reexports of Foreign Merchandise: By commodity groups, and by principal articles.....	586
540 Imported Dutiable Merchandise Entered for Consumption: Total values, duties collected, and average rate of duty, by tariff schedules.....	587
<b>23. COMMERCE OF NONCONTIGUOUS TERRITORY</b>	
541 Imports and Exports of Merchandise into and from Alaska: Total values.....	591
542 Imports and Exports of Merchandise into and from Porto Rico: Total values.....	592
543 Imports and Exports of Merchandise into and from Hawaii: Total values.....	592
544. Imports and Exports of Merchandise into and from the Philippine Islands: Total values.....	593
545. Imports and Exports of Merchandise into and from American Samoa: Total values.....	593
546. Imports and Exports of Merchandise into and from the Virgin Islands: Total values.....	594
547 Imports and Exports of Merchandise into and from Guam: Total values.....	594
548. Shipments of Principal Products to the United States from Alaska, Hawaii, Porto Rico, and the Philippine Islands: Quantities and values.....	595
549. Shipments of Principal Articles from the United States to Alaska, Hawaii, Porto Rico, and the Philippine Islands.....	596
<b>24. IRRIGATION AND DRAINAGE</b>	
550 Government Irrigation Projects: Consolidated financial statement.....	599
551 Government Irrigation Projects: Construction cost, other cost reimbursable with construction, and amount to be repaid by water users.....	600
552. Government Irrigation Projects: Operation and maintenance cost and returns during 1927.....	600
553. Government Irrigation Projects: Operation and maintenance cost and returns to Dec. 31, 1927.....	601
554 Government Irrigation Projects: Voucher transactions, all funds, and net investment.....	602
555. Government Irrigation: Acreage and value of crops, by projects.....	603
556. Government Irrigation: Acreage and value of crops, 1915 to 1928.....	604
557. Crops on Irrigated Land: Acreage, production, and value of specified crops.....	604
558. Government Irrigation: Summary of construction work.....	605
559. Irrigation—All Projects: Summary for the United States.....	605
560. Irrigation—All Projects: Area and capital invested, by character of enterprise.....	606
561. Irrigation—All Projects: Area and capital invested, by drainage basins.....	606
562. Irrigation: Area, capital invested, final cost, and cost of operation and maintenance, by States.....	607
563. Irrigation: Acreage, yield, and value of crops grown on irrigated lands.....	608
564. Irrigation: Acreage and value of crops grown on irrigated lands, by States.....	609
565. Drainage of Farm Lands and Drainage Enterprises in the United States.....	609
566 Drainage Enterprises Land in enterprises and capital invested, by character of organization.....	610
567 Drainage Enterprises Land in enterprises and capital invested by date of organization.....	610
568 Drainage of Farm Lands and Drainage Enterprises: By States.....	611
<b>25. FARMS—GENERAL STATISTICS</b>	
569 Population, Farms, and Farm Property 1850, and 1880 to 1925.....	613
570. Farm Population and Total Population. By States.....	614
571. Classification of Farm Lands: By States.....	615
572. Number and Total and Improved Acreage of Farms: By States.....	616
573. Value of Farm Property: By classes and by States.....	618
574. Average Values per Farm and per Acre: By States.....	620
575 Number of Farms by Size: Totals, 1900 to 1925, and by States, 1925.....	621
576 Number and Acreage of Farms: By size for each division.....	622
577 Number of Farms: By size of farm, and by tenure and color of farmer.....	623
578 Acreage of Farm Land: By size of farm and by tenure and color of farmer.....	624
579 Number of Farms by Tenure: By States.....	625
580 Farm Acreage, Total and Crop Land Harvested, by Tenure. By States.....	626
581. Percentage of Farms and Farm Land Operated by Tenants. By States.....	627
582. Number of Farms in the South: By color and tenure of operator.....	628
583. Number and Acreage of Farms: By color and nativity of operator and by States.....	629
584. Number and Acreage of Farms: By color, nativity, and tenure of operator and by geographic divisions and regions.....	630
585. Value of Farm Property: By size and tenure of farm.....	631
586. Mortgage Status of Farms Owned by the Operator.....	632

Table	Page
587. Farms Owned Wholly by the Operator and Reporting Mortgage Debt: Number, value, and mortgage debt, by size of farm.....	632
588. Mortgage Status of Farms: By States.....	633
589. Mortgage Debt of Farms: By States.....	634
590. Number of Farms: By kind of road on which located and distance from nearest market town.....	635
591. Farm Expenditures for Labor, Fertilizer, and Feed: By States.....	636
592. Cooperative Marketing and Purchasing through Farmers' Organizations: By divisions.....	638
593. Cooperative Marketing and Purchasing Through Farmers' Organizations: By States.....	638
594. Farms Reporting Motor Vehicles, Telephones, Water and Light: By States.....	639
595. Farms Reporting Tractors and Radios: By States.....	640
596. Number of Tractors on Farms: By States.....	640
<b>26. FARM PRODUCTS—VALUE, PRICES, AND FOREIGN TRADE</b>	
597. Estimated Total Value of Farm Products 1897 to 1926.....	641
598. Estimated Value of Farm Products: By principal classes.....	641
599. Index Numbers of Farm and Wholesale Prices of Agricultural Products: By groups.....	642
600. Index Numbers of Prices Received and Paid by Farmers and of Wholesale Prices.....	642
601. Average Farm Wage Rates and Index Numbers of Farm Wages.....	643
602. Foreign Trade in Agricultural and Forest Products: 1882 to 1928.....	644
603. Agricultural Exports: Value by major groups, 1910 to 1928.....	644
604. Agricultural Exports: Value by principal products or groups, 1910 to 1928.....	645
605. Agricultural Export Indexes: Quantity, price, and value.....	645
606. Agricultural Export Indexes: By groups.....	645
<b>27. FARM ANIMALS AND ANIMAL PRODUCTS</b>	
607. Domestic Animals: Number and value of animals on farms, 1880 to 1929.....	647
608. Domestic Animals: Number on farms and not on farms, and value of those on farms.....	647
609. Domestic Animals. Number on farms, by States.....	648
610. Domestic Animals on Farms: By age and sex.....	650
611. Domestic Animals on Farms: Number, averages, and ratios.....	650
612. Domestic Animals: Receipts and shipments, principal markets and all markets.....	651
613. Domestic Animals: Receipts and shipments at nine principal markets combined.....	652
614. Domestic Animals: Receipts and stocker and feeder shipments at all public markets.....	652
615. Domestic Animals: Receipts at four principal markets by months.....	652
616. Domestic Animals: Average farm price and average Chicago market price.....	653
617. Domestic Animals: Monthly average prices of typical grades at Chicago.....	653
618. Wholesale Prices of Meats and Animal Products (actual and index numbers).....	654
619. Average Farm Prices of Animals and Animal Products.....	654
620. Meats: Production, exports, imports, and estimated consumption, and number of animals slaughtered under Federal inspection.....	655
621. Livestock Products of Farms: Summary of census statistics.....	656
622. Cheese: Census statistics of production in the United States, and in leading States.....	656
623. Milk Produced and Sold, and Butter Made: Census statistics, by States.....	657
624. Manufactured Dairy Products: Production by detailed classes.....	658
625. Milk. Production and uses (estimates).....	658
626. Butter and Cheese: Production, receipts at leading markets, and cold-storage holdings.....	659
627. Butter and Cheese Prices: Farm and wholesale, by years and months.....	659
628. Oleomargarine: Production and materials used.....	660
629. Poultry on Farms: Number and value.....	660
630. Chickens on Farms and Chickens Raised and Eggs Produced: By States.....	661
631. Poultry: Farm prices and receipts at principal markets, by years and months.....	662
632. Eggs: Farm prices, prices and receipts at principal markets, and cold-storage holdings.....	662
633. Cold-storage Holdings of Animal Products and Frozen Fish: By months.....	663
634. Wool: Prices, import values, and receipts at Boston.....	664
635. Wool: Production, imports and exports, 1839 to 1928.....	664
636. Wool: Production by States.....	665
637. Wool Consumed in Manufactures: By classes.....	665
638. Animal Food Manufacturing Industries: Materials used and products.....	666
<b>28. FARM CROPS AND FOODSTUFFS</b>	
639. Index Numbers of Mass of Crop Production: 1890 to 1928.....	667
640. Index Numbers of All Crop Yields: By geographic divisions, 1912 to 1928.....	667
641. Average Value Per Acre of 10 Leading Crops Combined: 1866 to 1928.....	667
642. Production of Principal Commodities: 1800 to 1928.....	668
643. Crop Values: Comparative statement showing change in value of crops between 1919 and 1924, resulting (1) from change in production and (2) from lower prices.....	669
644. Acreage, Production, and Value of Individual Crops: Census returns, 1899 to 1924.....	670

Table	Page
645 Percentage of Improved Land and of Total Crop Acreage Occupied by Principal Crops.....	672
646. Truck Crops: Commercial acreage and production.....	672
647 Aggregate Value of Farm Crops: By States.....	673
648 Cotton and Cottonseed: Area, production, and farm value, by States.....	674
649. Fertilizer sold, by States.....	677
650. Corn: Area, production, and farm value, by States.....	678
651. Wheat: Area, production, and farm value, by States.....	680
652. Oats: Area, production, and farm value, by States.....	682
653. Barley: Area, production, and farm value, by States.....	684
654. Rye and Rice: Area, production, and farm value, by States.....	686
655 Potatoes: Area, production, and farm value, by States.....	688
656 Sweet Potatoes and Tobacco: Area, production, and farm value, by States.....	690
657. Tame Hay: Area, production, and farm value, by States.....	692
658. Wild Hay: Area, production, and farm value, by States.....	693
659. Acreage, Production, and Value of Principal Crops: 1866 to 1928.....	694
660. Minor Crops: Area, production, and farm value for principal producing States.....	699
661 Orchard Crops (apples, peaches, pears): Production, total and in leading States.....	700
662. Orchard Crops (apples, peaches, pears): Production, 1891 to 1927.....	701
663. Orchard Crops (apples, peaches, pears): Farm prices per bushel, by States.....	701
664. Sugar: Production of the United States and certain outlying areas, and of the world.....	702
665. Sugar: Production of United States, trade, and apparent consumption.....	702
666. Sugar: Percentages relating to consumption in continental United States.....	703
667. Sugar: Wholesale prices of raw and refined, New York.....	703
668. Sugar Beets and Beet Sugar. Production, totals, and by States.....	704
669. Louisiana Sugar Cane, Cane Sugar, and Molasses.....	705
670. Hawaiian Cane and Cane Sugar.....	705
671. Maple Sugar and Sirup. Production, totals and, by States.....	706
672. Sugar Cane and Sirup in Southern States: Production, totals, and by States.....	706
673 Cottonseed and Cottonseed Products: Production, value, and exports.....	707
674. Cotton: Production, consumption, exports, imports, and prices.....	708
675. Cotton Exports to Principal Countries: 1866 to 1928.....	709
676. Coffee: Imports, reexports, net imports per capita, and average import price per pound.....	709
677. Tea: Net Imports and Per Capita Imports.....	710
678. Cocoa and Chocolate. Imports.....	710
679 Silk and Silk Manufactures. Foreign trade.....	710
680. Crude Rubber: World production, United States imports, exports, consumption, and prices.....	711
681. Wheat: Acreage and Production.....	711
682. Wheat: Supply and distribution and disappearance for food, etc.....	712
683. Visible Supply of Grain (wheat, corn, oats): By months.....	712
684. Exports (excl. reexports) and Total Imports of Wheat, Corn, Rice, Tobacco, and Flaxseed.....	713
685. Yearly Weighted Average Farm Prices of Specified Crops: By crop years.....	714
686. Grain Prices. Weighted average market price per bushel of reported cash sales.....	715
687. Grain Receipts at Six Atlantic Seaboard Ports.....	715
688 Grain Receipts (wheat, corn, oats) at Primary Markets: By crop years.....	716
689. Wheat Freight Rates: Chicago to New York.....	716
690. Wheat Freight Rates: Buffalo to New York.....	717
691 Freight Rates (grain, flour, provisions): Chicago to European ports.....	717
692. Food Manufacturing Industries: Materials used and products.....	718
<b>29. FORESTS AND FOREST PRODUCTS</b>	
693 Forests: Original and present area, and stand of saw timber and annual growth.....	721
694 Stand of Saw Timber (estimated): By species and regions.....	722
695. National Government Forests: Area and amount of standing timber of forests, in each State.....	722
696. National Government Forests: Area of each forest.....	723
697. Forest Lands Acquired or Approved for Purchase under Weeks Law: By States.....	724
698. National Government Forests. Statistics of operations.....	724
699. Lumber. Production, totals, and by species, and average value.....	725
700. Lumber Production. By regions and States.....	726
701. Estimated Quantity of Timber Removed Annually from Forests.....	727
702 Lumber. Composite prices, by months.....	727
703. Lumber. Average mill value, by species.....	728
704 Veneers. Timber consumed in manufacturing, by States, and by kinds of wood.....	728
705. Lath and Shingles. Production, totals, and by States.....	729
706. Cooperage Stock. Production, by States, and kind of wood.....	729
707. Pulpwood: Consumption by mills, and mill cost.....	730
708. Wood Pulp Production: Totals, and by States, and processes.....	730
709. Paper and Wood Pulp: Census statistics of production.....	731
710. Turpentine and Rosin Production: Totals, and by States.....	731

Table	Page
645 Percentage of Improved Land and of Total Crop Acreage Occupied by Principal Crops.....	672
646. Truck Crops: Commercial acreage and production.....	672
647 Aggregate Value of Farm Crops: By States.....	673
648 Cotton and Cottonseed: Area, production, and farm value, by States.....	674
649. Fertilizer sold, by States.....	677
650. Corn: Area, production, and farm value, by States.....	678
651. Wheat: Area, production, and farm value, by States.....	680
652. Oats: Area, production, and farm value, by States.....	682
653. Barley: Area, production, and farm value, by States.....	684
654. Rye and Rice: Area, production, and farm value, by States.....	686
655 Potatoes: Area, production, and farm value, by States.....	688
656 Sweet Potatoes and Tobacco: Area, production, and farm value, by States.....	690
657. Tame Hay: Area, production, and farm value, by States.....	692
658. Wild Hay: Area, production, and farm value, by States.....	693
659. Acreage, Production, and Value of Principal Crops: 1866 to 1928.....	694
660. Minor Crops: Area, production, and farm value for principal producing States.....	699
661 Orchard Crops (apples, peaches, pears): Production, total and in leading States.....	700
662. Orchard Crops (apples, peaches, pears): Production, 1891 to 1927.....	701
663. Orchard Crops (apples, peaches, pears): Farm prices per bushel, by States.....	701
664. Sugar: Production of the United States and certain outlying areas, and of the world.....	702
665. Sugar: Production of United States, trade, and apparent consumption.....	702
666. Sugar: Percentages relating to consumption in continental United States.....	703
667. Sugar: Wholesale prices of raw and refined, New York.....	703
668. Sugar Beets and Beet Sugar. Production, totals, and by States.....	704
669. Louisiana Sugar Cane, Cane Sugar, and Molasses.....	705
670. Hawaiian Cane and Cane Sugar.....	705
671. Maple Sugar and Sirup. Production, totals and, by States.....	706
672. Sugar Cane and Sirup in Southern States: Production, totals, and by States.....	706
673 Cottonseed and Cottonseed Products: Production, value, and exports.....	707
674. Cotton: Production, consumption, exports, imports, and prices.....	708
675. Cotton Exports to Principal Countries: 1866 to 1928.....	709
676. Coffee: Imports, reexports, net imports per capita, and average import price per pound.....	709
677. Tea: Net Imports and Per Capita Imports.....	710
678. Cocoa and Chocolate. Imports.....	710
679 Silk and Silk Manufactures. Foreign trade.....	710
680. Crude Rubber: World production, United States imports, exports, consumption, and prices.....	711
681. Wheat: Acreage and Production.....	711
682. Wheat: Supply and distribution and disappearance for food, etc.....	712
683. Visible Supply of Grain (wheat, corn, oats): By months.....	712
684. Exports (excl. reexports) and Total Imports of Wheat, Corn, Rice, Tobacco, and Flaxseed.....	713
685. Yearly Weighted Average Farm Prices of Specified Crops: By crop years.....	714
686. Grain Prices. Weighted average market price per bushel of reported cash sales.....	715
687. Grain Receipts at Six Atlantic Seaboard Ports.....	715
688 Grain Receipts (wheat, corn, oats) at Primary Markets: By crop years.....	716
689. Wheat Freight Rates: Chicago to New York.....	716
690. Wheat Freight Rates: Buffalo to New York.....	717
691 Freight Rates (grain, flour, provisions): Chicago to European ports.....	717
692. Food Manufacturing Industries: Materials used and products.....	718
<b>29. FORESTS AND FOREST PRODUCTS</b>	
693 Forests: Original and present area, and stand of saw timber and annual growth.....	721
694 Stand of Saw Timber (estimated): By species and regions.....	722
695. National Government Forests: Area and amount of standing timber of forests, in each State.....	722
696. National Government Forests: Area of each forest.....	723
697. Forest Lands Acquired or Approved for Purchase under Weeks Law: By States.....	724
698. National Government Forests. Statistics of operations.....	724
699. Lumber. Production, totals, and by species, and average value.....	725
700. Lumber Production. By regions and States.....	726
701. Estimated Quantity of Timber Removed Annually from Forests.....	727
702 Lumber. Composite prices, by months.....	727
703. Lumber. Average mill value, by species.....	728
704 Veneers. Timber consumed in manufacturing, by States, and by kinds of wood.....	728
705. Lath and Shingles. Production, totals, and by States.....	729
706. Cooperage Stock. Production, by States, and kind of wood.....	729
707. Pulpwood: Consumption by mills, and mill cost.....	730
708. Wood Pulp Production: Totals, and by States, and processes.....	730
709. Paper and Wood Pulp: Census statistics of production.....	731
710. Turpentine and Rosin Production: Totals, and by States.....	731

Table	Page
776. Petroleum: Stocks of crude and refined oils.....	774
777. Petroleum: Supply and demand of crude and refined oils.....	775
778. Petroleum Refining: Materials used and products.....	775
779. Petroleum Products: Oils run to stills, output, stocks, exports, and consumption.....	776
780. Petroleum Products: Crude oil run to stills, and output of refineries, by regions.....	776
781. Petroleum Pipe Lines: Mileage and financial statistics.....	777
782. Petroleum: Prices of crude and refined products.....	777
783. Portland Cement. Production by States, shipments, stocks, exports, and imports.....	778
784. Portland Cement. Shipments to each State.....	778
785. Cement Production: Quantity, by kinds, and total value.....	779
786. Stone Production, by varieties and uses.....	779
787. Clay and Glass Products. Production by industries.....	780
788. Production of Principal Burned-Clay Building Materials.....	781
789. Salt: Total production, and by States and kinds.....	781
790. Accidents in all Mineral Industries and in the Several Branches.....	782
791. Fatal Accidents in Mines and Quarries. By causes.....	782
792. Accidents in Mines, Quarries, Metallurgical Works, and Coke Ovens.....	783
<b>32. MANUFACTURES</b>	
793. Manufactures. Summary 1849 to 1927.....	785
794. Manufactures: Size of establishment as measured by value of products.....	786
795. Manufactures: Prime movers, motors, and generators, number and rated capacity.....	787
796. Manufactures: Summary by 16 general industrial groups.....	788
797. Manufactures. Summary for individual industries.....	790
798. Manufactures. Summary for all industries combined, by States.....	815
799. Manufactures in Cities Having 100,000 or More Inhabitants.....	820
800. Indexes of Production of Manufacturing and Mining Industry: By years and months.....	822
801. Manufacturing Production: Indexes for groups of industries.....	822
802. Textile Manufactures: Census statistics of production.....	823
803. Chemicals: Census statistics of products made for sale.....	826
804. Natural Dyestuffs and Tanning Materials: Census statistics of production.....	827
805. Miscellaneous Industries Involving Chemical Processes. Census statistics of production.....	828
806. Leather Production by principal kinds.....	829
807. Boots and Shoes Production.....	829
808. Rubber Manufacturing Industry: Census statistics of products.....	830
809. Printing and Publishing: Census statistics of products.....	830
810. Engines, Water Turbines, and Locomotives: Census statistics of production.....	831
811. Machinery: Value of the principal classes of machines manufactured.....	831
812. Metal-working Machinery: Census statistics of production.....	833
813. Electrical Machinery, Apparatus, and Supplies: Census statistics of production.....	833
814. Farm Equipment: Census statistics of production.....	835
815. Musical Instruments and Phonographs: Census statistics of production.....	836
816. Vehicles and Aircraft: Census statistics of production.....	837
817. Cotton Spindles and Cotton Consumption, 1840 to 1928, and Stocks, 1906 to 1928.....	838
818. Cotton Spindle Hours and Cotton Consumption. By years and months.....	839
819. Cotton Spindle Activity and Cotton Consumption: By sections and States.....	839
820. Explosives: Amounts manufactured and sold and purposes for which used.....	840
821. Explosives: Amounts manufactured in the United States and sold in each State.....	840
822. Fermented Liquors and Distilled Spirits: Production by kinds.....	841
823. Denatured Alcohol: Production and ethyl alcohol withdrawn for denaturation.....	841
824. Leaf Tobacco: Amounts consumed in manufacture.....	841
825. Manufactured Tobacco: Production, total 1901 to 1928, and by States, 1927.....	842
826. Consumption of Tobacco in the United States.....	842
827. Building Operations in Principal Cities: Permits issued and proposed cost.....	843
828. Building Permits Issued. Number and proposed cost, by class of building.....	846
829. Index Numbers of Building Material Prices and Construction Costs.....	846
830. Building Contracts Awarded: Number, value of construction contracted, and space covered.....	847
831. Building Contracts Awarded: Floor space and value, by months and years.....	848
832. Building Contracts Awarded. By classes and districts.....	848
833. Patents and Certificates of Registration Issued.....	849
Appendix.....	850



# STATISTICAL ABSTRACT OF THE UNITED STATES

## 1.—AREA AND POPULATION

### No. 1.—TERRITORIAL EXPANSION OF THE UNITED STATES

NOTE.—Gross areas, including land and water, but not water surface of oceans, Gulf of Mexico, and Great Lakes. Recent revisions in these figures are due to more accurate maps

Accession	Date	Gross area, square miles	Accession	Date	Gross area, square miles
Aggregate (1920)-----		3, 738,393	Outlying territories and possessions-----		711,804
Continental United States-----		3, 026, 789	Alaska Territory-----	1867	586,400
Territory in 1790 <sup>1</sup> -----		892, 135	Hawaiian Territory-----	1898	6, 406
Louisiana Purchase-----	1803	827, 987	Philippine Islands-----	1899	114, 400
Florida-----	1819	58, 666	Port Rico (unincorporated territory)-----	1899	3, 435
By treaty with Spain-----	1819	13, 435	Guam-----	1899	206
Texas-----	1845	389, 166	American Samoa-----	1900	75
Oregon-----	1846	286, 541	Panama Canal Zone-----	1904	549
Mexican Cession-----	1848	529, 189	Virgin Islands of the U. S.-----	1917	133
Gadsden Purchase-----	1853	29, 670			

<sup>1</sup> Includes drainage basin of Red River of the North, not a part of any accession, but in the past some times considered a part of the Louisiana Purchase

Source: Bureau of the Census, Department of Commerce

### No. 2.—DATES OF ORGANIZATION OF STATES AND TERRITORIES

State	Date of organization		State	Date of organization	
	Territory	State		Territory	State
ORIGINAL STATES, 1789			STATES WITH PREVIOUS TERRITORIAL ORGANIZATION—contd.		
New Hampshire-----			Illinois-----	1809	<sup>2</sup> 1818
Massachusetts-----			Alabama-----	1817	<sup>2</sup> 1819
Rhode Island-----			Missouri-----	1812	1821
Connecticut-----			Arkansas-----	1819	1836
New York-----			Michigan-----	1805	1837
New Jersey-----			Florida-----	1822	1845
Pennsylvania-----			Iowa-----	1838	1846
Delaware-----			Wisconsin-----	1836	1848
Maryland-----			California-----	<sup>6</sup> 1847	1850
Virginia-----			Minnesota-----	1849	1858
North Carolina-----			Oregon-----	1848	1859
South Carolina-----			Kansas-----	1854	1861
Georgia-----			Nevada-----	1861	1864
STATES ADMITTED WITHOUT PREVIOUS TERRITORIAL ORGANIZATION <sup>1</sup>			Nebraska-----	1854	1867
Vermont-----		1791	Colorado-----	1861	1876
Kentucky-----		1792	North Dakota-----	<sup>6</sup> 1861	1889
Maine-----		1820	South Dakota-----	<sup>6</sup> 1861	1889
Texas-----		<sup>2</sup> 1845	Montana-----	1864	1889
West Virginia-----		1863	Washington-----	1853	1889
STATES WITH PREVIOUS TERRITORIAL ORGANIZATION			Idaho-----	1890	1890
Tennessee-----	<sup>3</sup> 1790	1796	Wyoming-----	1868	1890
Ohio-----	<sup>4</sup> 1787	1803	Utah-----	1850	1896
Louisiana-----	1804	1812	Oklahoma-----	1890	1907
Indiana-----	1800	<sup>2</sup> 1816	New Mexico-----	1850	1912
Mississippi-----	1798	<sup>2</sup> 1817	Arizona-----	1863	1912
			TERRITORIES, ETC.		
			District of Columbia-----	1790	<sup>7</sup> 1791
			Alaska-----	1912	
			Hawaii-----	1900	

<sup>1</sup> Vermont and Texas had been independent republics, Maine had been under jurisdiction of Massachusetts; Kentucky and West Virginia were set off from Virginia

<sup>2</sup> Joint resolution of Congress.

<sup>3</sup> "Territory of the United States, south of the river Ohio," ceded from North Carolina, containing more territory than the present State of Tennessee

<sup>4</sup> "Territory northwest of the Ohio River," containing more territory than the present State of Ohio

<sup>5</sup> "Military territory," containing more territory than the present State of California

<sup>6</sup> Dakota Territory.

<sup>7</sup> Federal area, under supervision of Congress

Source: Bureau of the Census, Department of Commerce.

## No. 3.—AREA: GEOGRAPHIC DIVISIONS AND STATES, 1920

Division and State	Area (square miles)			Division and State	Area (square miles)		
	Land	Water	Total		Land	Water	Total
<b>Continental United States.</b>	<b>2, 973, 774</b>	<b>153, 015</b>	<b>3, 026, 789</b>	<b>South Atlantic—Con.</b>			
<b>New England</b> .....	61, 976	4, 448	66, 424	Dist of Columbia.....	60	10	70
Maine.....	29, 895	3, 145	33, 040	Virginia.....	40, 262	2, 365	42, 627
New Hampshire.....	9, 031	310	9, 341	West Virginia.....	24, 022	148	24, 170
Vermont.....	9, 124	440	9, 564	North Carolina.....	48, 740	3, 686	52, 426
Massachusetts.....	8, 039	227	8, 266	South Carolina.....	30, 495	494	30, 989
Rhode Island.....	1, 067	181	1, 248	Georgia.....	58, 725	540	59, 265
Connecticut.....	4, 820	145	4, 965	Florida.....	54, 861	3, 805	58, 666
<b>Middle Atlantic</b> .....	100, 000	2, 554	102, 554	<b>East South Central</b> .....	179, 509	1, 974	181, 483
New York.....	47, 654	1, 550	49, 204	Kentucky.....	40, 181	417	40, 598
New Jersey.....	7, 514	710	8, 224	Tennessee.....	41, 687	335	42, 022
Pennsylvania.....	44, 832	294	45, 126	Alabama.....	51, 279	719	51, 998
<b>East North Central</b> .....	245, 564	2, 541	248, 105	Mississippi.....	46, 362	503	46, 865
Ohio.....	40, 740	300	41, 040	<b>West South Central</b> .....	429, 746	8, 048	437, 794
Indiana.....	36, 045	309	36, 354	Arkansas.....	52, 525	810	53, 335
Illinois.....	56, 043	622	56, 665	Louisiana.....	45, 409	3, 097	48, 506
Michigan.....	57, 480	500	57, 980	Oklahoma.....	69, 414	643	70, 057
Wisconsin.....	55, 256	810	56, 066	Texas.....	262, 398	3, 498	265, 896
<b>West North Central</b> .....	510, 804	7, 575	518, 379	<b>Mountain</b> .....	859, 009	6, 008	865, 017
Minnesota.....	80, 558	3, 824	84, 382	Montana.....	146, 131	866	146, 997
Iowa.....	55, 536	561	56, 147	Idaho.....	83, 354	534	83, 888
Missouri.....	68, 727	693	69, 420	Wyoming.....	97, 548	366	97, 914
North Dakota.....	70, 183	654	70, 837	Colorado.....	103, 658	290	103, 948
South Dakota.....	76, 868	747	77, 615	New Mexico.....	122, 603	131	122, 634
Nebraska.....	76, 808	712	77, 520	Arizona.....	113, 810	146	113, 956
Kansas.....	81, 774	384	82, 158	Utah.....	82, 184	2, 806	84, 990
<b>South Atlantic</b> .....	269, 071	13, 839	282, 910	Nevada.....	109, 821	869	110, 690
Delaware.....	1, 965	405	2, 370	<b>Pacific</b> .....	318, 095	6, 028	324, 123
Maryland.....	9, 941	2, 386	12, 327	Washington.....	66, 036	2, 291	68, 327
				Oregon.....	95, 607	1, 092	96, 699
				California.....	155, 552	2, 645	158, 297

<sup>1</sup> Does not include the water surface of the oceans, the Gulf of Mexico, or the Great Lakes, the Strait of Juan de Fuca, and the Gulf of Georgia, lying within the jurisdiction of the United States.

<sup>2</sup> Exclusive of Great Lakes.

<sup>3</sup> Exclusive of water area of the Strait of Juan de Fuca and the Gulf of Georgia.

Source: Bureau of the Census, Department of Commerce

## No. 4.—AREA AND POPULATION: CONTINENTAL UNITED STATES, 1790 to 1920

NOTE.—The enumeration of 1870 was incomplete in the Southern States. The last column shows the estimated rate of increase corrected for 1870 and 1880

Census year	Area (square miles)			Population				
	Gross	Land	Water	Number	Per square mile <sup>1</sup>	Increase over preceding census		
						Number	Per cent	Corrected per cent, estimated
1790.....	392, 135	867, 980	24, 155	3, 929, 214	4.5			
1800.....	392, 135	867, 980	24, 155	5, 308, 483	6.1	1, 379, 269	35.1	
1810.....	1, 720, 122	1, 685, 865	34, 257	7, 239, 881	4.3	1, 931, 398	36.4	
1820.....	1, 792, 223	1, 753, 588	38, 635	9, 638, 453	5.5	2, 398, 572	33.1	
1830.....	1, 792, 223	1, 753, 588	38, 635	12, 866, 020	7.3	3, 227, 567	33.5	
1840.....	1, 792, 223	1, 753, 588	38, 635	17, 069, 453	9.7	4, 203, 433	32.7	
1850.....	2, 997, 119	2, 944, 337	52, 782	23, 191, 876	7.9	6, 122, 423	35.9	
1860.....	3, 026, 789	2, 973, 965	52, 824	31, 443, 321	10.6	8, 251, 445	35.6	
1870.....	3, 026, 789	2, 973, 965	52, 824	38, 558, 371	13.0	7, 115, 050	22.6	26.6
1880.....	3, 026, 789	2, 973, 965	52, 824	50, 155, 793	16.9	11, 597, 412	30.1	26.0
1890.....	3, 026, 789	2, 973, 965	52, 824	62, 947, 714	21.2	12, 797, 931	20.7	
1900.....	3, 026, 789	2, 974, 159	52, 630	75, 994, 575	25.6	13, 046, 861	25.5	
1910.....	3, 026, 789	2, 973, 890	52, 899	91, 972, 266	30.9	16, 977, 691	21.0	
1920.....	3, 026, 789	2, 973, 774	53, 015	105, 710, 620	35.5	13, 738, 354	14.9	
1928 <sup>2</sup> .....	3, 026, 789	2, 973, 774	53, 015	120, 013, 000	40.4	14, 302, 000	13.5	

<sup>1</sup> Based on land area.

<sup>2</sup> Population estimated as of July 1

Source: Bureau of the Census, Department of Commerce.

# **No. 5.—POPULATION: CONTINENTAL UNITED STATES AND OUTLYING TERRITORIES AND POSSESSIONS, 1910 AND 1920**

NOTE.—These data represent actual enumerations, not estimates, as in Table 6. For several of the outlying possessions they relate to dates other than 1910 and 1920, as indicated by footnotes. The census of Continental United States was as of date Apr. 15 in 1910 and Jan. 1 in 1920.

Area	Gross area (land and water) in square miles <sup>1</sup>	Population	
		1910	1920
United States, with outlying territories and possessions.....	3,738,393	101,148,530	117,823,165
Continental United States.....	3,026,789	91,972,266	105,710,620
Outlying territories and possessions.....	711,604	9,174,264	12,112,545
Alaska Territory.....	586,400	64,356	55,036
American Samoa.....	75	<sup>2</sup> 7,251	8,056
Guam.....	206	11,806	13,275
Hawaii Territory.....	6,406	191,909	255,912
Panama Canal Zone.....	549	<sup>3</sup> 62,810	22,853
Porto Rico (unincorporated territory).....	3,435	1,118,012	1,290,500
Military and naval, etc., services abroad.....		55,608	117,238
Philippine Islands.....	114,400	<sup>4</sup> 7,635,426	<sup>5</sup> 10,314,310
Virgin Islands of the United States.....	133	<sup>6</sup> 27,086	<sup>6</sup> 26,031
Total Continental United States and incorporated territories (Alaska and Hawaii).....	3,619,595	92,228,531	106,021,568
Total Statistical Customs Area—Continental United States, Alaska, Hawaii, and Porto Rico.....	3,623,030	93,346,543	107,321,377

<sup>1</sup> See headnote Table 1

<sup>2</sup> Population in 1912

<sup>3</sup> Population in 1903

<sup>4</sup> Population Dec 31, 1918

<sup>5</sup> Population in 1911.

<sup>6</sup> Population Nov 1, 1917

# **No. 6.—POPULATION: ANNUAL MIDYEAR ESTIMATES FOR CONTINENTAL UNITED STATES, AND CERTAIN OUTLYING TERRITORIES AND POSSESSIONS**

NOTE.—Estimates for continental United States, prior to 1920, and for Hawaii, Porto Rico, and Philippine Islands, all years, are based on the assumption that the increase each year between two successive censuses is equal to the annual average increase between the two enumerations. Beginning 1920, estimates for continental United States are based on available data regarding births, deaths, immigration, and emigration. Estimates for 1929 have not been made pending the 1930 census. For estimated population by States see Table 11.

Year	Continental United States	Year	Continental United States	Year	Continental United States	Hawaii	Porto Rico	Philippine Islands	Panama Canal Zone
1850....	23,260,638	1877....	46,773,203	1903....	80,983,390	165,836	1,010,724	7,691,824	-----
1852....	24,910,926	1878....	47,932,945	1904....	82,601,354	169,675	1,026,521	7,861,016	-----
1853....	25,736,070	1879....	49,092,687	1905....	84,219,378	173,514	1,042,318	8,030,208	-----
1854....	26,561,214	1880....	50,262,382	1906....	85,837,372	177,353	1,058,115	8,199,400	-----
1855....	27,386,359	1881....	51,541,575	1907....	87,455,366	181,192	1,073,912	8,368,592	-----
1856....	28,211,504	1882....	52,820,768	1908....	89,073,360	185,031	1,089,709	8,537,784	-----
1857....	29,036,649	1883....	54,099,961	1909....	90,691,354	188,870	1,105,506	8,706,977	-----
1858....	29,861,794	1884....	55,379,154	1910....	92,267,080	193,282	1,121,913	8,876,170	-----
1859....	30,686,939	1885....	56,658,347	1911....	93,882,189	199,874	1,140,638	9,045,363	-----
1860....	31,502,613	1886....	57,937,540	1912....	95,097,298	206,466	1,159,364	9,214,556	<sup>1</sup> 61,279
1861....	32,214,118	1887....	59,216,733	1913....	96,512,407	213,058	1,178,090	9,383,749	<sup>1</sup> 57,400
1862....	32,925,623	1888....	60,495,927	1914....	97,927,516	219,650	1,196,816	9,552,942	<sup>2</sup> 37,706
1863....	33,637,128	1889....	61,775,121	1915....	99,342,625	226,243	1,215,842	9,722,135	<sup>2</sup> 29,926
1864....	34,348,633	1890....	63,056,438	1916....	100,757,735	232,836	1,234,288	9,891,328	<sup>2</sup> 31,048
1865....	35,060,138	1891....	64,361,124	1917....	102,172,843	239,429	1,252,994	10,060,521	<sup>2</sup> 23,295
1866....	35,771,643	1892....	65,665,910	1918....	103,587,955	246,022	1,271,720	10,229,714	<sup>3</sup> 21,707
1867....	36,483,148	1893....	66,970,406	1919....	105,003,065	252,615	1,290,448	10,398,906	<sup>3</sup> 21,750
1868....	37,194,653	1894....	68,275,182	1920....	106,421,621	259,208	1,309,172	10,568,098	<sup>3</sup> 21,559
1869....	37,906,158	1895....	69,579,868	1921....	108,444,777	265,800	1,327,897	10,737,290	<sup>3</sup> 23,757
1870....	38,655,016	1896....	70,884,554	1922....	109,893,003	272,392	1,346,623	10,906,482	<sup>3</sup> 23,671
1871....	39,814,757	1897....	72,189,240	1923....	111,693,474	278,984	1,365,349	11,075,674	<sup>3</sup> 23,671
1872....	40,974,498	1898....	73,493,925	1924....	113,727,432	285,576	1,384,075	11,244,867	<sup>3</sup> 27,143
1873....	42,134,239	1899....	74,798,612	1925....	115,378,094	292,168	1,402,801	11,414,060	<sup>3</sup> 27,151
1874....	43,293,980	1900....	76,129,408	1926....	117,136,000	299,000	1,422,000	11,583,000	<sup>3</sup> 27,692
1875....	44,453,721	1901....	77,747,402	1927....	118,628,000	305,400	1,440,300	11,752,400	<sup>3</sup> 27,624
1876....	45,613,462	1902....	79,365,396	1928....	120,013,000	311,900	1,459,000	11,921,600	<sup>3</sup> 27,624

<sup>1</sup> Enumeration by Canal Commission

<sup>2</sup> Police census

<sup>3</sup> Police census, excluding persons in military and naval service

Source of Tables 5 and 6 Bureau of the Census, Department of Commerce.

# **No. 5.—POPULATION: CONTINENTAL UNITED STATES AND OUTLYING TERRITORIES AND POSSESSIONS, 1910 AND 1920**

NOTE.—These data represent actual enumerations, not estimates, as in Table 6. For several of the outlying possessions they relate to dates other than 1910 and 1920, as indicated by footnotes. The census of Continental United States was as of date Apr. 15 in 1910 and Jan. 1 in 1920.

Area	Gross area (land and water) in square miles <sup>1</sup>	Population	
		1910	1920
United States, with outlying territories and possessions.....	3,738,393	101,146,530	117,823,165
Continental United States.....	3,026,789	91,972,266	105,710,620
Outlying territories and possessions.....	711,604	9,174,264	12,112,545
Alaska Territory.....	586,400	64,356	55,036
American Samoa.....	75	<sup>2</sup> 7,251	8,056
Guam.....	206	11,806	13,275
Hawaii Territory.....	6,406	191,909	255,912
Panama Canal Zone.....	549	<sup>3</sup> 62,810	22,858
Porto Rico (unincorporated territory).....	3,435	1,118,012	1,299,809
Military and naval, etc., services abroad.....		55,608	117,238
Philippine Islands.....	114,400	<sup>4</sup> 7,635,426	<sup>4</sup> 10,314,310
Virgin Islands of the United States.....	133	<sup>5</sup> 27,086	<sup>6</sup> 26,051
Total Continental United States and incorporated territories (Alaska and Hawaii).....	3,619,595	92,228,531	106,021,568
Total Statistical Customs Area—Continental United States, Alaska, Hawaii, and Porto Rico.....	3,623,030	93,346,543	107,321,377

<sup>1</sup> See headnote Table 1

<sup>2</sup> Population in 1912

<sup>3</sup> Population in 1903

<sup>4</sup> Population Dec 31, 1918

<sup>5</sup> Population in 1911.

<sup>6</sup> Population Nov 1, 1917

# **No. 6.—POPULATION: ANNUAL MIDYEAR ESTIMATES FOR CONTINENTAL UNITED STATES, AND CERTAIN OUTLYING TERRITORIES AND POSSESSIONS**

NOTE.—Estimates for continental United States, prior to 1920, and for Hawaii, Porto Rico, and Philippine Islands, all years, are based on the assumption that the increase each year between two successive censuses is equal to the annual average increase between the two enumerations. Beginning 1920, estimates for continental United States are based on available data regarding births, deaths, immigration, and emigration. Estimates for 1929 have not been made pending the 1930 census. For estimated population by States see Table 11.

Year	Continental United States	Year	Continental United States	Year	Continental United States	Hawaii	Porto Rico	Philippine Islands	Panama Canal Zone
1850....	23,260,638	1877....	46,773,203	1903....	80,983,390	165,836	1,010,724	7,691,824	-----
1852....	24,910,926	1878....	47,932,945	1904....	82,601,354	169,675	1,026,521	7,861,016	-----
1853....	25,736,070	1879....	49,092,687	1905....	84,219,373	173,514	1,042,318	8,030,208	-----
1854....	26,561,214	1880....	50,262,382	1906....	85,837,372	177,353	1,058,115	8,199,400	-----
1855....	27,396,359	1881....	51,541,575	1907....	87,455,366	181,192	1,073,912	8,368,592	-----
1856....	28,211,504	1882....	52,820,768	1908....	89,073,360	185,031	1,089,709	8,537,784	-----
1857....	29,036,649	1883....	54,099,961	1909....	90,691,354	188,870	1,105,506	8,706,977	-----
1858....	29,861,794	1884....	55,379,154	1910....	92,267,080	193,282	1,121,913	8,876,170	-----
1859....	30,686,939	1885....	56,658,347	1911....	93,682,189	199,874	1,140,638	9,045,363	-----
1860....	31,502,613	1886....	57,937,540	1912....	95,097,298	206,466	1,159,364	9,214,556	<sup>1</sup> 61,279
1861....	32,214,118	1887....	59,216,733	1913....	96,512,407	213,058	1,178,090	9,383,749	<sup>1</sup> 57,400
1862....	32,925,623	1888....	60,495,927	1914....	97,927,516	219,650	1,196,816	9,552,942	<sup>1</sup> 37,706
1863....	33,637,128	1889....	61,775,121	1915....	99,342,625	226,243	1,215,542	9,722,135	<sup>1</sup> 29,926
1864....	34,348,633	1890....	63,056,435	1916....	100,757,735	232,836	1,234,268	9,891,328	<sup>1</sup> 31,048
1865....	35,060,138	1891....	64,361,124	1917....	102,172,843	239,429	1,252,994	10,060,521	<sup>1</sup> 23,295
1866....	35,771,643	1892....	65,665,810	1918....	103,587,955	246,022	1,271,720	10,229,714	<sup>1</sup> 21,707
1867....	36,483,148	1893....	66,970,496	1919....	105,003,065	252,615	1,290,446	10,398,906	<sup>1</sup> 21,759
1868....	37,194,653	1894....	68,275,182	1920....	106,421,621	259,208	1,309,172	10,568,093	<sup>1</sup> 21,650
1869....	37,906,158	1895....	69,579,868	1921....	108,444,777	265,800	1,327,897	10,737,290	<sup>1</sup> 23,757
1870....	38,655,016	1896....	70,884,554	1922....	109,863,003	272,392	1,346,623	10,906,482	<sup>1</sup> 23,671
1871....	39,814,757	1897....	72,189,240	1923....	111,693,474	278,984	1,365,349	11,075,674	<sup>1</sup> 23,671
1872....	40,974,498	1898....	73,493,926	1924....	113,727,432	285,576	1,384,075	11,244,867	<sup>1</sup> 27,143
1873....	42,134,239	1899....	74,798,612	1925....	115,378,094	292,168	1,402,801	11,414,060	<sup>1</sup> 27,151
1874....	43,293,980	1900....	76,129,408	1926....	117,136,000	299,000	1,422,000	11,583,000	<sup>1</sup> 27,692
1875....	44,453,721	1901....	77,747,402	1927....	118,628,000	305,400	1,440,300	11,752,400	<sup>1</sup> 27,624
1876....	45,613,462	1902....	79,365,396	1928....	120,013,000	311,900	1,459,000	11,921,600	<sup>1</sup> 27,624

<sup>1</sup> Enumeration by Canal Commission

<sup>2</sup> Police census

<sup>3</sup> Police census, excluding persons in military and naval service

Source of Tables 5 and 6 Bureau of the Census, Department of Commerce.



No. 8.—SEX DISTRIBUTION, BY CLASSES: CONTINENTAL UNITED STATES

Class	1900		1910		1920		Males per 100 females		
	Males	Females	Males	Females	Males	Females	1900	1910	1920
All classes	38,816,448	37,178,127	47,332,277	44,639,989	53,900,431	51,810,188	104.4	106.0	104.0
White	34,201,735	32,607,461	42,178,248	39,553,712	48,430,655	46,390,260	104.9	106.6	104.4
Negro	4,386,547	4,447,447	4,885,831	4,941,832	5,209,436	5,253,695	98.6	98.9	99.1
Indian	119,484	117,712	135,133	130,550	125,068	119,369	101.5	103.5	104.8
Chinese	85,341	4,522	66,856	4,675	53,891	7,748	1,887.2	1,430.1	695.5
Japanese	23,341	985	63,070	9,087	72,707	38,308	2,369.6	694.1	189.8
All other			3,092	83	8,674	814		(1)	1,065.8
White population:									
Native, total	28,686,460	27,908,929	34,654,457	33,731,955	40,902,333	40,205,828	102.8	102.7	101.7
Native parentage	20,849,847	20,099,515	25,229,218	24,259,357	29,636,781	28,785,176	103.7	104.0	103.0
Foreign or mixed parentage	7,836,603	7,809,414	9,425,239	9,472,598	11,265,552	11,420,652	100.3	99.5	98.6
Foreign	5,341,350	5,290,930	6,456,793	6,459,518	7,810,531	7,884,008	101.0	100.0	99.1
Mixed native and foreign	2,495,253	2,518,484	2,968,446	3,013,080	3,455,021	3,536,644	99.1	98.5	97.7
Foreign born	5,515,285	4,698,532	7,523,788	5,821,757	7,528,322	6,184,432	117.4	129.2	121.7
	1860		1870		1880		1890		
Total population									
Males		16,085,204		19,493,565		25,518,820		32,237,101	
Females		15,358,117		19,064,806		24,636,963		30,710,613	
Males per 100 females		104.7		102.2		103.6		105.0	

<sup>1</sup> Ratio not shown, number of females being less than 100

No. 9.—AGE DISTRIBUTION: BY CLASSES, 1920, WITH CERTAIN COMPARISONS FOR PREVIOUS CENSUSES, CONTINENTAL UNITED STATES

Age group	All classes					
	Number			Per cent		
	1900	1910	1920	1900	1910	1920
Total.....	75,994,575	91,972,266	105,710,820	100 0	100 0	100 0
Under 5.....	9,170,628	10,631,364	11,573,230	12 1	11 6	10 9
5 to 14.....	16,954,357	18,367,772	22,039,212	22 3	20 5	20 8
15 to 19.....	7,555,089	9,063,003	9,430,556	9 9	9 9	8 9
20 to 44.....	28,632,443	35,866,859	40,555,543	37 7	39 0	38 4
45 and over.....	13,480,474	17,373,613	21,963,380	17 7	18 9	20 8
Age unknown.....	200,584	169,055	148,699	0 3	0 2	0 1

  

Age group	Male		Female		Native white, native parentage		Native white, foreign or mixed parentage	
	Number	Per ct	Number	Per ct	Number	Per ct.	Number	Per ct
Total (1920).....	53,900,431	100 0	51,810,189	100 0	58,421,957	100 0	22,686,204	100 0
Under 5.....	5,857,461	10 9	5,715,769	11 0	7,366,530	12 6	2,962,407	13 1
5 to 14.....	11,122,307	20 6	10,916,905	21 1	13,433,572	23 0	5,521,749	24 3
15 to 19.....	4,673,792	8 7	4,756,764	9 2	5,599,046	9 6	2,187,167	9 6
20 to 44.....	20,555,965	38 1	19,999,578	38 6	20,952,732	35 9	8,235,855	36 3
45 and over.....	11,598,031	21 5	10,355,349	20 0	10,977,908	18 8	3,767,796	16 6
Age unknown.....	92,875	0 2	85,824	0 1	92,169	0 2	11,230	(?)

  

Age group	Foreign-born white		Negroes		Indian		Chinese		Japanese	
	Number	Per ct.	Number	Per ct	Number	Per ct	Number	Per ct	Number	Per ct.
Total (1920).....	13,712,754	100 0	10,468,131	100 0	244,437	100 0	61,639	100 0	111,010	100 0
Under 5.....	44,984	0 3	1,143,699	10 9	33,346	13 6	2,898	4 7	19,029	17 1
5 to 14.....	501,246	3 7	2,503,121	23 9	64,339	26 3	4,516	7 3	10,312	9 3
15 to 19.....	527,942	3 9	1,083,215	10 4	25,417	10 4	2,760	4 5	4,342	3 9
20 to 44.....	7,198,586	52 5	3,996,083	38 2	75,345	30 8	25,470	41 3	64,815	57 9
45 and over.....	5,419,732	39 5	1,713,510	16 4	45,199	18 5	25,735	41 8	12,600	11 4
Age unknown.....	20,264	0 1	23,503	0 2	791	0 3	260	0 4	412	0 4

<sup>1</sup> All classes for 1920 includes other nonwhite (9,488) not shown separately

<sup>2</sup> Less than one-tenth of 1 per cent.

Source of Tables 8 and 9 Bureau of the Census, Department of Commerce.

## No. 11.—POPULATION: ANNUAL MIDYEAR ESTIMATES BY STATES

NOTE.—The total population of the United States is estimated upon the basis of the available birth, death, immigration, and emigration figures. The annual increase in the United States population is distributed to the various States according to the per cent which each State increase was of the United States increase between 1910 and 1920, except that in the case of those States which took a census in 1925 the State census figures are used. If a State showed a decrease in population between 1910 and 1920 or 1920 and 1925, the 1920 or 1925 census figure was used and no estimate made. Pending the 1930 census, estimates for 1929 have not been made.

[All figures in thousands]

Division and State	1920	1922	1923	1924	1925	1926	1927	1928
United States (Cont'l)....	106,422	109,890	111,692	113,727	115,378	117,136	118,628	120,013
<b>New England</b> .....	7,450	7,668	7,777	7,894	7,986	8,092	8,182	8,276
Maine.....	769	776	779	783	787	790	793	795
New Hampshire.....	444	447	449	450	452	454	455	456
Vermont.....	1,852	1,852	1,852	1,852	1,852	1,852	1,852	1,852
Massachusetts.....	3,880	3,991	4,047	4,103	4,144	4,197	4,242	4,290
Rhode Island.....	611	640	654	668	670	693	704	716
Connecticut.....	1,394	1,462	1,497	1,538	1,572	1,606	1,636	1,667
<b>Middle Atlantic</b> .....	22,417	23,131	23,496	23,897	24,238	24,597	24,902	25,225
New York.....	10,457	10,744	10,887	11,031	11,162	11,303	11,423	11,530
New Jersey.....	3,187	3,345	3,427	3,522	3,600	3,680	3,749	3,821
Pennsylvania.....	8,773	9,042	9,128	9,344	9,476	9,614	9,730	9,854
<b>East North Central</b> .....	21,637	22,459	22,889	23,386	23,789	24,208	24,564	24,942
Ohio.....	5,809	6,062	6,194	6,347	6,471	6,600	6,710	6,826
Indiana.....	2,942	3,000	3,081	3,066	3,095	3,124	3,150	3,176
Illinois.....	6,528	6,744	6,856	6,987	7,093	7,203	7,296	7,391
Michigan.....	3,711	3,930	4,045	4,177	4,284	4,396	4,490	4,596
Wisconsin.....	2,647	2,723	2,763	2,809	2,846	2,885	2,918	2,953
<b>West North Central</b> .....	12,581	12,750	12,842	12,941	13,021	13,108	13,182	13,261
Minnesota.....	2,403	2,482	2,524	2,572	2,611	2,651	2,686	2,722
Iowa.....	2,406	2,412	2,415	2,418	2,420	2,423	2,425	2,428
Missouri.....	3,410	3,438	3,453	3,470	3,484	3,498	3,510	3,523
North Dakota.....	646	644	643	642	641	641	641	641
South Dakota.....	641	653	666	674	681	689	696	704
Nebraska.....	1,302	1,323	1,342	1,358	1,371	1,385	1,396	1,408
Kansas.....	1,773	1,790	1,799	1,807	1,813	1,821	1,828	1,835
<b>South Atlantic</b> .....	14,098	14,616	14,884	15,185	15,418	15,676	15,898	16,127
Delaware.....	224	229	232	235	238	240	243	244
Maryland.....	1,457	1,497	1,517	1,541	1,560	1,580	1,597	1,616
District of Columbia.....	443	470	484	501	514	528	540	552
Virginia.....	2,322	2,385	2,418	2,456	2,486	2,519	2,546	2,575
West Virginia.....	1,476	1,538	1,570	1,607	1,638	1,669	1,696	1,724
North Carolina.....	2,677	2,667	2,714	2,768	2,812	2,858	2,897	2,938
South Carolina.....	1,692	1,735	1,757	1,783	1,804	1,826	1,845	1,864
Georgia.....	2,910	2,983	3,022	3,066	3,102	3,139	3,171	3,203
Florida.....	997	1,112	1,170	1,228	1,264	1,317	1,363	1,411
<b>East South Central</b> .....	8,919	9,043	9,108	9,184	9,246	9,309	9,368	9,419
Kentucky.....	2,423	2,455	2,472	2,492	2,508	2,524	2,538	2,553
Tennessee.....	2,346	2,385	2,405	2,429	2,448	2,468	2,485	2,502
Alabama.....	2,359	2,412	2,440	2,472	2,499	2,526	2,549	2,573
Mississippi.....	1,191	1,191	1,191	1,191	1,191	1,191	1,191	1,191
<b>West South Central</b> .....	10,316	10,687	10,882	11,105	11,287	11,479	11,638	11,807
Arkansas.....	1,761	1,807	1,831	1,858	1,880	1,905	1,928	1,944
Louisiana.....	1,806	1,842	1,861	1,882	1,900	1,919	1,934	1,950
Oklahoma.....	2,047	2,141	2,191	2,248	2,294	2,342	2,384	2,426
Texas.....	4,702	4,897	4,999	5,117	5,213	5,313	5,397	5,487
<b>Mountain</b> .....	3,371	3,551	3,646	3,754	3,842	3,936	4,013	4,101
Montana.....	557	601	624	651	672	695	714	734
Idaho.....	437	464	479	495	508	522	534	546
Wyoming.....	197	209	216	223	229	236	241	247
Colorado.....	947	983	1,001	1,023	1,040	1,059	1,074	1,090
New Mexico.....	362	370	375	380	384	388	392	396
Arizona.....	341	374	391	411	428	445	469	474
Utah.....	453	473	483	494	504	514	522	531
Nevada.....	77	77	77	77	77	77	77	77
<b>Pacific</b> .....	5,635	5,986	6,170	6,382	6,553	6,731	6,885	7,045
Washington.....	1,367	1,422	1,451	1,484	1,510	1,538	1,562	1,587
Oregon.....	789	817	832	849	863	877	890	902
California.....	3,479	3,747	3,887	4,049	4,180	4,316	4,433	4,556

¹ Population Jan. 1, 1920

² Population State Census, 1925

Source Bureau of the Census, Department of Commerce

## No. 12.—POPULATION BY STATES

NOTE.—The census of 1870 in the

Division and State	Population							
	1790	1800	1810	1820	1830	1840	1850	1860
<b>United States (Cont'l)</b> .....	3, 929, 214	5, 308, 483	7, 239, 881	9, 638, 453	12, 866, 020	17, 069, 453	23, 191, 876	31, 443, 321
<b>New England</b> .....	1, 009, 408	1, 233, 011	1, 471, 973	1, 680, 071	1, 954, 717	2, 234, 822	2, 728, 118	3, 135, 233
Maine.....	96, 540	151, 719	228, 705	298, 335	399, 455	501, 793	583, 169	628, 279
New Hampshire.....	141, 885	183, 858	214, 460	244, 161	269, 828	284, 574	317, 976	326, 073
Vermont.....	85, 425	154, 465	217, 895	235, 981	280, 652	291, 948	314, 120	315, 098
Massachusetts.....	378, 787	422, 845	472, 040	523, 287	610, 408	737, 699	904, 514	1, 231, 066
Rhode Island.....	68, 825	69, 122	76, 931	83, 059	97, 199	108, 830	147, 545	174, 620
Connecticut.....	237, 946	251, 002	261, 942	275, 248	297, 675	309, 978	370, 792	460, 147
<b>Middle Atlantic</b> .....	958, 632	1, 402, 565	2, 014, 702	2, 699, 845	3, 587, 664	4, 526, 260	5, 898, 735	7, 458, 985
New York.....	340, 120	589, 051	959, 049	1, 372, 812	1, 918, 608	2, 428, 921	3, 097, 394	3, 880, 735
New Jersey.....	184, 139	211, 149	245, 562	277, 575	320, 523	373, 806	489, 555	672, 035
Pennsylvania.....	434, 373	602, 366	810, 091	1, 049, 458	1, 348, 233	1, 724, 033	2, 311, 786	2, 906, 215
<b>East North Central</b> .....		51, 006	272, 324	799, 719	1, 470, 018	2, 924, 728	4, 523, 280	6, 926, 894
Ohio.....		45, 365	230, 760	581, 434	937, 903	1, 519, 467	1, 980, 329	2, 339, 511
Indiana.....		5, 641	24, 520	147, 178	343, 031	685, 866	988, 416	1, 350, 428
Illinois.....			12, 282	55, 211	157, 445	476, 183	851, 470	1, 711, 951
Michigan.....			4, 762	8, 896	31, 639	212, 267	397, 654	749, 113
Wisconsin.....						30, 945	305, 391	775, 881
<b>West North Central</b> .....			19, 783	66, 586	140, 455	426, 814	880, 335	2, 169, 332
Minnesota.....							6, 077	172, 023
Iowa.....						43, 112	192, 214	674, 913
Missouri.....			19, 783	66, 586	140, 455	383, 702	682, 044	1, 182, 012
North Dakota.....							( <sup>c</sup> )	
South Dakota.....								8, 837
Nebraska.....								28, 841
Kansas.....								107, 206
<b>South Atlantic</b> .....	1, 851, 806	2, 286, 494	2, 674, 891	3, 061, 063	3, 645, 752	3, 925, 299	4, 679, 090	5, 384, 703
Delaware.....	59, 096	64, 273	72, 874	72, 749	78, 748	78, 085	91, 532	112, 216
Maryland.....	319, 728	341, 548	380, 546	407, 350	447, 040	470, 019	533, 034	687, 049
District of Columbia.....		14, 093	24, 023	33, 039	39, 834	43, 712	51, 687	75, 080
Virginia.....	747, 610	880, 200	974, 600	1, 065, 866	1, 211, 405	1, 239, 797	1, 421, 661	1, 596, 318
West Virginia.....								
North Carolina.....	393, 751	478, 103	555, 500	638, 829	737, 987	753, 419	869, 039	992, 622
South Carolina.....	249, 073	345, 591	415, 115	502, 741	581, 185	594, 398	668, 507	703, 708
Georgia.....	82, 548	162, 686	252, 433	340, 989	516, 823	691, 392	906, 185	1, 057, 286
Florida.....					34, 730	54, 477	87, 445	140, 424
<b>East South Central</b> .....	109, 368	335, 407	708, 590	1, 190, 489	1, 815, 989	2, 575, 445	3, 363, 271	4, 020, 991
Kentucky.....	73, 677	220, 955	406, 511	564, 317	687, 917	779, 828	982, 405	1, 155, 684
Tennessee.....	35, 691	105, 602	261, 727	422, 823	681, 904	829, 210	1, 002, 717	1, 109, 801
Alabama.....				127, 901	309, 527	590, 756	771, 623	964, 201
Mississippi.....		8, 850	40, 352	75, 448	136, 621	375, 651	606, 526	791, 305
<b>West South Central</b> .....			77, 613	187, 680	246, 127	449, 985	940, 251	1, 747, 067
Arkansas.....			71, 062	14, 273	30, 388	97, 574	209, 897	435, 450
Louisiana.....			76, 556	153, 407	215, 739	352, 411	517, 762	708, 002
Oklahoma.....								
Texas.....							212, 592	604, 215
<b>Mountain</b> .....							72, 927	174, 923
Montana.....								
Idaho.....								
Wyoming.....								
Colorado.....								34, 277
New Mexico.....							61, 547	93, 516
Arizona.....								
Utah.....							11, 380	40, 273
Nevada.....								6, 857
<b>Pacific</b> .....							105, 891	444, 053
Washington.....								11, 594
Oregon.....							13, 294	52, 465
California.....							92, 597	379, 994

<sup>1</sup> A minus sign (—) denotes decrease<sup>2</sup> Includes population (325,464) of Indian Territory and Indian reservations, specially enumerated in 1890, but not included in the general report on population for 1890.<sup>3</sup> Includes persons (5,318 in 1830 and 6,100 in 1840) on public ships in the service of the United States not credited to any division or State

Source Bureau of the Census, Department of Commerce.



## POPULATION BY STATES

9

## AT EACH CENSUS, 1790 TO 1920

Southern States is considered incomplete

Population—Continued						Per cent increase <sup>1</sup>		Rank in population		Division and State
1870	1880	1890 <sup>2</sup>	1900	1910	1920	1900-1910	1910-1920	1910	1920	
39,558,371	50,155,783	62,947,714	75,994,575	91,972,266	105,710,620	21 0	14 9			U. S.
3,457,924	4,010,529	4,700,749	5,592,017	6,552,831	7,400,909	17 2	12 9	VII	VII	N. E.
626,915	648,936	661,086	694,466	742,371	768,014	6 9	3 5	34	35	Me
318,300	346,991	376,530	411,588	430,572	443,083	4 6	2 9	39	41	N H
330,551	332,286	332,422	343,641	355,956	352,428	3 6	-1 0	42	45	Vt
1,457,351	1,783,085	2,238,947	2,805,346	3,366,416	3,852,356	20 0	14 4	6	6	Mass.
217,353	276,531	345,506	428,556	542,610	604,397	26 6	11 4	38	38	R I.
537,454	622,700	746,258	908,420	1,114,756	1,380,631	22 7	23 9	31	29	Conn.
8,810,806	10,496,873	12,706,220	15,454,678	19,815,892	22,321,144	25 0	15 2	I	I	M. A.
4,332,759	5,082,871	6,003,174	7,208,894	9,113,614	10,385,227	25 4	14 0	1	1	N. Y.
906,096	1,131,116	1,444,933	1,883,699	2,537,167	3,155,900	34 7	24 4	11	10	N. J.
3,521,951	4,282,891	5,258,113	6,302,115	7,665,111	8,720,017	21 6	13 8	2	2	Pa.
9,124,517	11,206,683	13,478,305	15,985,581	18,250,621	21,475,543	14 2	17 7	II	II	E. N. C.
2,065,200	3,198,062	3,672,329	4,157,545	4,767,121	5,759,394	14 7	20 8	4	4	Ohio.
1,630,637	1,078,301	2,122,404	2,516,462	2,700,876	2,930,390	7 3	8 5	11	11	Ind
2,539,891	3,077,871	3,826,352	4,821,550	5,638,581	6,485,280	16 9	15 0	3	3	Ill
1,184,059	1,636,937	2,093,890	2,420,932	2,810,173	3,068,412	16 1	30 5	8	7	Mich.
1,054,670	1,315,497	1,693,330	2,069,042	2,383,860	2,632,067	12 8	12 8	13	13	Wis
3,856,594	6,157,443	8,332,112	10,347,433	11,637,921	12,544,249	12 5	7 8	IV	IV	W. N. C.
439,706	780,773	1,310,283	1,751,394	2,075,708	2,387,125	18 5	15 0	19	17	Minn.
1,094,020	1,624,615	1,912,297	2,231,853	2,234,771	2,404,021	-3 8	8 1	15	16	Iowa.
1,721,295	2,168,380	2,679,185	3,106,665	3,293,335	3,404,055	6 0	3 4	7	9	Mo
2,405	36,909	190,983	319,146	577,056	646,872	80 8	12 1	37	36	N. Dak.
1,177	98,268	348,600	401,570	583,888	636,547	45 4	9 0	36	37	S. Dak.
122,993	452,402	1,062,656	1,066,300	1,192,214	1,296,372	11 8	8 7	29	31	Nebr.
364,399	996,096	1,428,108	1,470,495	1,690,949	1,769,257	15 0	4 6	22	24	Kans.
5,853,610	7,597,197	8,857,922	10,443,480	12,194,885	13,890,272	16 8	14 7	III	III	S. A.
125,015	146,808	168,493	184,735	202,322	223,003	9 5	10 2	47	47	Del.
780,894	934,943	1,042,890	1,188,044	1,295,346	1,449,661	9 0	11 9	27	28	Md
131,700	177,624	230,892	278,718	331,069	437,571	15 8	32 2	42	42	D. C.
1,255,163	1,512,565	1,635,980	1,854,184	2,061,612	2,309,187	11 2	12 0	20	20	Va.
442,014	618,487	762,744	958,800	1,221,119	1,463,701	27 2	19 9	28	27	W. Va.
1,071,361	1,399,750	1,617,949	1,898,810	2,206,287	2,553,123	16 5	16 0	16	14	N. C.
7,005,606	995,577	1,151,149	1,340,316	1,515,400	1,683,724	13 1	11 1	26	26	S. C.
1,184,109	1,542,180	1,837,353	2,216,331	2,609,121	2,895,832	17 7	11 0	10	12	Ga
187,748	269,493	391,422	528,542	752,619	968,470	42 4	28 7	33	32	Fla.
4,404,445	5,585,181	6,429,154	7,547,757	8,409,901	8,893,307	11 4	5 7	VI	VI	E. S. C.
1,321,011	1,648,690	1,858,635	2,147,174	2,289,905	2,416,630	6 6	5 5	14	15	Ky.
1,288,520	1,542,359	1,767,618	2,020,616	2,184,789	2,337,885	8 1	7 0	17	19	Tenn.
996,992	1,262,505	1,513,401	1,828,697	2,138,093	2,348,174	16 9	9 8	18	18	Ala.
827,922	1,131,507	1,289,600	1,551,270	1,797,114	1,790,618	15 8	-4	21	23	Miss.
2,029,965	3,334,220	4,740,983	6,532,290	8,784,534	10,242,224	34 5	16 6	V	V	W. S. C.
434,471	802,525	1,128,211	1,311,504	1,574,449	1,752,204	20 0	11 3	25	25	Ark.
726,915	939,946	1,118,588	1,381,025	1,656,388	1,798,509	19 9	8 6	24	24	La
		2,553,657	5,790,391	1,657,155	2,028,283	109 7	22 4	28	21	Okl.
		2,235,527	3,048,710	3,896,542	4,663,228	27 8	19 7	5	5	Tex
315,385	653,119	1,213,935	1,674,657	2,633,517	3,336,101	57 3	26 7	IX	IX	Mont.
20,505	39,159	142,924	243,329	376,053	548,839	54 5	46 0	40	39	Idaho.
14,999	32,610	88,548	161,772	325,594	431,866	101 3	32 6	45	43	Wyo
9,118	20,789	62,555	92,531	145,965	194,402	57 7	33 2	48	48	Colo
39,864	194,327	413,249	539,700	799,024	939,629	40 0	17 6	32	33	N. Mex.
91,874	119,565	160,282	195,310	327,301	360,350	67 6	10 1	44	44	Ariz.
9,658	40,440	88,243	122,931	204,354	334,162	66 2	63 5	46	46	Utah.
86,786	143,963	210,779	276,749	373,351	449,396	34 9	20 4	41	40	Nev.
42,491	62,666	47,855	42,335	81,875	77,407	98 4	-5 5	49	49	Pac.
675,125	1,114,578	1,888,334	2,416,692	4,192,304	5,566,871	73 5	32 8	VIII	VIII	Wash.
23,955	75,116	357,232	518,103	1,141,990	1,356,621	120 4	18 8	30	30	Oreg.
90,923	174,768	317,704	413,536	672,765	783,389	62 7	16 4	35	34	Calif.
560,247	864,694	1,213,398	1,485,053	2,377,549	3,420,861	60 1	44 1	12	8	

<sup>1</sup>Population of area taken to form State of Missouri in 1821; part of Louisiana Territory in 1810<sup>2</sup>Population shown for South Dakota in 1860 represents entire Dakota Territory; for 1870 and 1880, population parts as since existing have been segregated<sup>3</sup>Area now constituting West Virginia formed part of Virginia prior to 1870.<sup>4</sup>Population of area taken to form Arkansas Territory in 1819, part of Louisiana Territory in 1810.<sup>5</sup>Includes population of Indian Territory, as follows: 1890, 180,182, 1900, 392,060.

## No. 13.—DENSITY OF POPULATION PER SQUARE MILE, BY STATES

Note.—The population of continental United States has been divided by the total land area, although it included at each census some unorganized territory which was not canvassed by the enumerators. For each State or Territory the population as returned at a given census has been divided by the land area as constituted at the time that census was taken. The areas of Indian reservations, outside of Indian Territory, are included in the areas of the several States and Territories, although the population was not ascertained and can not be considered in figuring density of population prior to 1890. The census of 1870 in the Southern States is considered incomplete. Population density in 1920 of Alaska, Hawaii, and Porto Rico, and of December 31, 1918, Philippine Islands, based on gross area, and not land area, was as follows: Alaska, 0.1, Hawaii, 89.7, Porto Rico, 378.4, Philippine Islands, 90.0

Division and State	1800	1850	1860	1870	1880	1890	1900	1910	1920
Continental States	6.1	7.9	10.6	13.0	16.9	21.2	25.6	30.9	35.5
<b>New England</b>	19.9	44.0	50.6	56.3	64.7	75.8	90.2	105.7	119.4
Maine	5.1	19.5	21.0	21.0	21.7	22.1	23.2	24.8	25.7
New Hampshire	20.4	35.2	36.1	35.2	38.4	41.7	45.6	47.7	49.1
Vermont	16.9	34.4	34.5	36.2	36.4	36.4	37.7	39.0	38.6
Massachusetts	52.6	123.7	153.1	181.3	221.8	278.5	349.0	418.8	479.2
Rhode Island	64.8	138.3	163.7	203.7	259.2	323.8	401.6	508.5	566.4
Connecticut	52.1	76.9	95.5	111.5	129.2	154.8	188.5	231.3	286.4
<b>Middle Atlantic</b>	14.0	59.0	74.6	88.1	105.0	127.1	154.5	193.2	232.6
New York	12.4	65.0	81.4	92.0	106.7	126.0	152.5	191.2	217.9
New Jersey	28.1	65.2	89.4	120.6	150.5	192.3	250.7	337.7	420.0
Pennsylvania	13.4	51.6	64.8	78.6	95.5	117.3	140.6	171.0	194.5
<b>East North Central</b>	0.2	18.4	28.2	37.2	45.7	54.9	65.2	74.3	87.5
Ohio	1.1	48.6	57.4	65.4	78.5	90.1	102.1	117.0	141.4
Indiana	(1)	27.5	37.6	46.8	55.1	61.1	70.1	74.9	81.3
Illinois		15.2	30.6	45.4	55.0	68.3	86.1	100.6	115.7
Michigan		6.9	13.0	20.6	28.5	36.4	42.1	48.9	63.8
Wisconsin		5.5	14.0	19.1	23.8	30.6	37.4	42.2	47.6
<b>West North Central</b>		3.1	3.0	7.6	12.1	17.5	20.3	22.8	24.6
Minnesota		(2)	2.1	5.4	9.7	16.2	21.7	25.7	29.5
Iowa		3.5	12.1	21.5	29.2	34.4	40.2	40.0	43.2
Missouri		9.9	17.2	25.0	31.6	39.0	45.2	47.9	49.5
North Dakota			(2)	(2)	(2)	2.7	4.5	8.2	9.2
South Dakota			(2)	(2)	(2)	4.5	5.2	7.6	8.3
Nebraska			0.2	1.6	5.9	13.8	13.9	15.5	16.9
Kansas			1.3	4.5	12.2	17.5	18.0	20.7	21.6
<b>South Atlantic</b>	8.6	17.4	19.9	21.8	28.2	32.9	38.8	45.3	52.0
Delaware	32.7	46.6	57.1	63.6	74.6	85.7	94.0	103.0	113.5
Maryland	34.4	58.6	69.1	78.6	94.0	104.9	119.5	130.3	145.8
District of Columbia	156.6	891.2	1,294.5	2,270.7	3,062.5	3,972.3	4,645.3	5,517.8	7,292.9
Virginia	13.7	22.1	24.8	30.4	37.6	41.1	46.1	51.2	67.4
West Virginia				18.4	25.7	31.8	39.9	50.8	60.9
North Carolina	9.8	17.8	20.4	22.0	28.7	33.2	38.9	45.3	50.5
South Carolina	11.3	21.9	23.1	23.1	32.6	37.7	44.0	49.7	55.2
Georgia	1.5	15.4	18.0	20.2	26.3	31.3	37.7	44.4	49.3
Florida		1.6	2.6	3.4	4.9	7.1	9.6	13.7	17.7
<b>East South Central</b>	2.9	18.7	22.4	24.5	31.1	35.8	42.0	46.8	49.5
Kentucky	5.5	24.4	28.8	32.9	41.0	46.3	53.4	57.0	60.1
Tennessee	2.5	24.1	26.6	30.2	37.0	42.4	48.5	52.4	56.1
Alabama		15.0	18.8	19.4	24.6	29.5	35.7	41.7	45.8
Mississippi	0.3	13.1	17.1	17.9	24.4	27.8	33.5	38.8	38.6
<b>West South Central</b>		2.6	4.9	5.6	9.3	11.0	15.2	20.4	23.8
Arkansas		4.0	8.3	9.2	15.3	21.5	25.0	30.0	33.4
Louisiana		11.4	15.6	16.0	20.7	24.6	30.4	36.5	39.6
Oklahoma						2.0	10.3	23.9	29.2
Texas		0.8	2.3	3.1	6.1	8.5	11.6	14.8	17.8
<b>Mountain</b>		0.2	0.3	0.4	0.8	1.4	1.9	3.1	3.9
Montana				0.1	0.3	1.0	1.7	2.6	3.8
Idaho				0.2	0.4	1.1	1.9	3.9	5.2
Wyoming				0.1	0.2	0.6	0.9	1.5	2.0
Colorado		0.3	0.4	0.4	1.9	4.0	5.2	7.7	9.1
New Mexico		0.3	0.4	0.7	1.0	1.3	1.6	2.7	2.9
Arizona				0.1	0.4	0.8	1.1	1.8	2.9
Utah		(1)	0.3	1.1	1.8	2.6	3.4	4.5	5.5
Nevada			0.1	0.4	0.6	0.4	0.4	0.7	0.7
<b>Pacific</b>		0.2	1.0	2.1	3.5	5.9	7.6	13.2	17.5
Washington			0.1	0.4	1.1	5.3	7.8	17.1	20.3
Oregon		(1)	0.5	1.0	1.8	3.3	4.3	7.0	8.2
California		0.6	2.4	3.6	5.5	7.8	9.5	15.3	22.0

<sup>1</sup> Less than one-tenth of 1 per cent.

<sup>2</sup> Dakota Territory. Less than one-tenth of 1 per cent in 1860, 0.1 in 1870, and 0.9 in 1880.

<sup>3</sup> Indian Territory. 5.9 in 1890 and 12.7 in 1900, combined with Oklahoma, 3.7 in 1890 and 11.4 in 1900.

Source. Bureau of the Census, Department of Commerce

## No. 14.—AGE DISTRIBUTION OF POPULATION, BY STATES, 1920

Division and State	Age groups—						
	Under 5 years	5 to 9 years	10 to 14 years	15 to 19 years	20 to 44 years	45 years and over	Age un- known
<b>Continental United States</b> .....	<b>11, 573, 230</b>	<b>11, 398, 075</b>	<b>10, 641, 137</b>	<b>9, 430, 556</b>	<b>40, 555, 543</b>	<b>21, 983, 380</b>	<b>143, 699</b>
<b>New England</b> .....	<b>753, 030</b>	<b>701, 890</b>	<b>650, 732</b>	<b>589, 133</b>	<b>2, 879, 855</b>	<b>1, 819, 383</b>	<b>6, 901</b>
Maine.....	75, 140	71, 641	69, 991	63, 860	270, 873	215, 614	895
New Hampshire.....	41, 391	39, 762	38, 791	35, 152	160, 601	126, 594	792
Vermont.....	34, 544	33, 412	32, 585	29, 508	121, 389	100, 614	376
Massachusetts.....	385, 761	359, 826	333, 538	302, 131	1, 538, 716	929, 252	3, 132
Rhode Island.....	62, 356	58, 253	53, 836	51, 655	237, 065	140, 939	293
Connecticut.....	153, 838	138, 996	121, 991	106, 832	551, 211	306, 350	1, 413
<b>Middle Atlantic</b> .....	<b>2, 354, 451</b>	<b>2, 240, 339</b>	<b>2, 045, 385</b>	<b>1, 815, 597</b>	<b>8, 949, 275</b>	<b>4, 833, 938</b>	<b>22, 149</b>
New York.....	1, 010, 290	972, 151	902, 418	817, 699	4, 327, 292	2, 343, 412	11, 965
New Jersey.....	338, 696	322, 958	291, 236	255, 161	1, 279, 766	665, 522	2, 561
Pennsylvania.....	1, 005, 465	945, 230	851, 741	742, 737	3, 342, 217	1, 825, 004	7, 623
<b>East North Central</b> .....	<b>2, 280, 032</b>	<b>2, 124, 725</b>	<b>1, 964, 219</b>	<b>1, 793, 056</b>	<b>8, 508, 125</b>	<b>4, 842, 133</b>	<b>23, 253</b>
Ohio.....	586, 136	548, 802	508, 329	464, 654	2, 309, 803	1, 337, 698	3, 912
Indiana.....	289, 135	284, 981	274, 400	254, 204	1, 096, 824	720, 956	3, 830
Illinois.....	265, 073	245, 264	235, 330	214, 981	1, 096, 824	720, 956	3, 830
Michigan.....	404, 586	368, 220	326, 453	295, 514	1, 474, 769	795, 138	3, 732
Wisconsin.....	285, 042	277, 458	259, 707	238, 132	987, 201	581, 672	2, 855
<b>West North Central</b> .....	<b>1, 341, 412</b>	<b>1, 313, 097</b>	<b>1, 249, 571</b>	<b>1, 144, 426</b>	<b>4, 752, 200</b>	<b>2, 725, 220</b>	<b>18, 323</b>
Minnesota.....	261, 394	248, 599	233, 961	219, 609	925, 236	495, 673	2, 653
Iowa.....	260, 887	239, 979	227, 801	214, 981	904, 494	562, 442	3, 437
Missouri.....	327, 909	338, 375	335, 121	307, 163	1, 302, 890	788, 386	4, 211
North Dakota.....	90, 889	85, 773	74, 759	61, 454	230, 121	102, 584	1, 292
South Dakota.....	79, 831	74, 521	66, 510	59, 476	239, 979	114, 783	1, 447
Nebraska.....	143, 240	140, 580	132, 108	119, 052	494, 159	264, 687	2, 546
Kansas.....	187, 262	185, 270	179, 311	162, 691	655, 321	396, 665	2, 737
<b>South Atlantic</b> .....	<b>1, 729, 369</b>	<b>1, 747, 456</b>	<b>1, 633, 561</b>	<b>1, 408, 111</b>	<b>4, 993, 867</b>	<b>2, 456, 784</b>	<b>20, 124</b>
Delaware.....	22, 929	21, 144	20, 214	18, 572	86, 650	52, 772	722
Maryland.....	147, 005	143, 703	139, 871	130, 997	563, 715	322, 870	1, 491
District of Columbia.....	30, 436	29, 840	29, 816	33, 526	212, 140	99, 924	1, 889
Virginia.....	277, 184	283, 135	265, 993	234, 360	818, 503	426, 974	3, 038
West Virginia.....	195, 934	184, 372	164, 147	141, 311	525, 499	249, 652	2, 786
North Carolina.....	358, 808	355, 642	318, 857	268, 198	844, 553	409, 856	3, 209
South Carolina.....	228, 581	235, 827	223, 040	182, 761	569, 417	242, 762	1, 336
Georgia.....	363, 229	382, 373	365, 312	307, 549	1, 009, 913	464, 616	2, 940
Florida.....	105, 263	111, 420	106, 311	91, 837	363, 477	187, 449	2, 713
<b>East South Central</b> .....	<b>1, 088, 134</b>	<b>1, 127, 944</b>	<b>1, 083, 052</b>	<b>911, 387</b>	<b>3, 078, 204</b>	<b>1, 594, 538</b>	<b>10, 048</b>
Kentucky.....	291, 625	287, 571	271, 237	235, 824	846, 910	481, 545	1, 918
Tennessee.....	280, 739	286, 384	276, 437	238, 371	818, 265	435, 535	2, 154
Alabama.....	299, 522	318, 231	299, 412	244, 993	798, 254	385, 055	2, 707
Mississippi.....	216, 248	235, 758	235, 966	192, 199	614, 775	292, 403	3, 269
<b>West South Central</b> .....	<b>1, 216, 509</b>	<b>1, 286, 179</b>	<b>1, 238, 234</b>	<b>1, 070, 051</b>	<b>3, 749, 358</b>	<b>1, 687, 113</b>	<b>19, 780</b>
Arkansas.....	220, 811	228, 488	221, 471	183, 852	602, 363	293, 635	1, 684
Louisiana.....	209, 213	223, 230	219, 227	188, 305	604, 714	289, 495	4, 325
Oklahoma.....	252, 678	261, 754	247, 437	209, 335	726, 212	327, 686	3, 281
Texas.....	533, 907	572, 707	545, 099	488, 559	1, 756, 069	756, 397	10, 490
<b>Mountain</b> .....	<b>396, 814</b>	<b>374, 824</b>	<b>335, 530</b>	<b>285, 204</b>	<b>1, 304, 365</b>	<b>626, 303</b>	<b>13, 061</b>
Montana.....	67, 372	60, 074	51, 327	42, 028	222, 192	100, 959	1, 937
Idaho.....	54, 536	51, 279	46, 597	38, 319	161, 681	79, 115	339
Wyoming.....	22, 524	20, 885	17, 458	14, 780	86, 411	31, 469	875
Colorado.....	97, 058	95, 086	89, 214	78, 632	366, 496	205, 489	7, 654
New Mexico.....	40, 399	46, 350	40, 925	34, 600	129, 822	61, 733	455
Arizona.....	40, 807	37, 894	32, 073	28, 435	139, 144	54, 184	1, 025
Utah.....	61, 375	56, 491	51, 020	43, 373	101, 093	74, 977	461
Nevada.....	6, 743	6, 759	5, 710	4, 977	34, 526	18, 377	315
<b>Pacific</b> .....	<b>473, 479</b>	<b>481, 621</b>	<b>445, 843</b>	<b>412, 586</b>	<b>2, 340, 294</b>	<b>1, 997, 988</b>	<b>15, 060</b>
Washington.....	126, 434	128, 258	117, 553	106, 485	564, 273	308, 831	4, 787
Oregon.....	71, 318	73, 084	69, 014	62, 775	314, 820	191, 524	854
California.....	275, 727	280, 279	259, 276	243, 326	1, 461, 201	897, 633	9, 419

Source. Bureau of the Census, Department of Commerce.

## No. 14.—AGE DISTRIBUTION OF POPULATION, BY STATES, 1920

Division and State	Age groups—						
	Under 5 years	5 to 9 years	10 to 14 years	15 to 19 years	20 to 44 years	45 years and over	Age un- known
<b>Continental United States.</b>	<b>11, 573, 230</b>	<b>11, 398, 075</b>	<b>10, 641, 137</b>	<b>9, 430, 556</b>	<b>40, 555, 543</b>	<b>21, 963, 380</b>	<b>143, 689</b>
<b>New England.</b>	<b>753, 030</b>	<b>701, 890</b>	<b>650, 732</b>	<b>589, 138</b>	<b>2, 879, 855</b>	<b>1, 819, 363</b>	<b>6, 901</b>
Maine	75, 140	71, 641	69, 991	63, 860	270, 873	215, 614	895
New Hampshire	41, 391	39, 762	38, 791	35, 152	160, 601	126, 594	792
Vermont	34, 544	33, 412	32, 585	29, 508	121, 389	100, 614	376
Massachusetts	385, 761	359, 826	333, 538	302, 131	1, 538, 716	929, 252	3, 132
Rhode Island	62, 356	58, 253	53, 836	51, 655	237, 065	140, 939	263
Connecticut	153, 838	138, 996	121, 991	106, 832	551, 211	306, 350	1, 413
<b>Middle Atlantic.</b>	<b>2, 354, 451</b>	<b>2, 240, 339</b>	<b>2, 045, 385</b>	<b>1, 815, 597</b>	<b>8, 949, 275</b>	<b>4, 833, 938</b>	<b>22, 149</b>
New York	1, 010, 290	972, 151	902, 418	817, 699	4, 327, 292	2, 343, 412	11, 965
New Jersey	338, 696	322, 958	291, 236	255, 161	1, 279, 766	665, 522	2, 561
Pennsylvania	1, 005, 465	945, 230	851, 741	742, 737	3, 342, 217	1, 825, 004	7, 623
<b>East North Central.</b>	<b>2, 220, 032</b>	<b>2, 124, 725</b>	<b>1, 964, 219</b>	<b>1, 793, 066</b>	<b>8, 508, 125</b>	<b>4, 842, 133</b>	<b>23, 253</b>
Ohio	586, 136	548, 802	508, 329	464, 654	2, 309, 863	1, 337, 698	3, 912
Indiana	289, 195	284, 981	274, 400	254, 204	1, 096, 824	726, 956	3, 830
Illinois	655, 073	645, 264	595, 330	540, 552	2, 639, 468	1, 400, 669	8, 924
Michigan	404, 586	368, 220	326, 453	295, 514	1, 474, 769	795, 138	3, 732
Wisconsin	285, 042	277, 453	259, 707	238, 132	987, 201	581, 672	2, 855
<b>West North Central.</b>	<b>1, 341, 412</b>	<b>1, 313, 097</b>	<b>1, 249, 571</b>	<b>1, 144, 426</b>	<b>4, 752, 300</b>	<b>2, 735, 220</b>	<b>18, 323</b>
Minnesota	261, 394	248, 599	233, 961	219, 609	925, 236	495, 673	2, 653
Iowa	250, 887	239, 979	227, 801	214, 981	904, 494	562, 442	3, 437
Missouri	327, 909	338, 375	335, 121	307, 163	1, 302, 890	788, 386	4, 211
North Dakota	90, 889	85, 773	74, 759	61, 454	230, 121	102, 584	1, 292
South Dakota	79, 831	74, 521	66, 510	59, 476	239, 979	114, 783	1, 447
Nebraska	143, 240	140, 580	132, 108	119, 052	494, 159	264, 687	2, 546
Kansas	187, 262	185, 270	179, 311	162, 691	655, 321	396, 665	2, 737
<b>South Atlantic.</b>	<b>1, 729, 369</b>	<b>1, 747, 456</b>	<b>1, 633, 561</b>	<b>1, 409, 111</b>	<b>4, 993, 867</b>	<b>2, 456, 784</b>	<b>20, 124</b>
Delaware	22, 929	21, 144	20, 214	18, 572	86, 650	52, 772	722
Maryland	147, 005	143, 703	139, 871	130, 997	563, 715	322, 870	1, 491
District of Columbia	30, 436	29, 840	29, 816	33, 526	212, 140	99, 924	1, 089
Virginia	277, 184	283, 135	265, 993	234, 360	818, 508	426, 974	3, 838
West Virginia	195, 934	184, 372	164, 147	141, 311	525, 499	249, 652	2, 786
North Carolina	358, 808	355, 642	318, 857	268, 198	844, 553	409, 856	3, 209
South Carolina	228, 581	235, 827	223, 040	182, 761	569, 417	242, 762	1, 336
Georgia	363, 229	382, 373	365, 312	307, 549	1, 009, 913	464, 516	2, 940
Florida	105, 263	111, 420	106, 311	91, 837	363, 477	187, 449	2, 713
<b>East South Central.</b>	<b>1, 088, 134</b>	<b>1, 127, 944</b>	<b>1, 083, 052</b>	<b>911, 387</b>	<b>3, 078, 204</b>	<b>1, 594, 538</b>	<b>10, 048</b>
Kentucky	291, 625	287, 571	271, 237	235, 824	846, 910	431, 545	1, 918
Tennessee	280, 739	286, 384	276, 437	238, 371	813, 265	435, 535	2, 154
Alabama	299, 522	313, 231	299, 412	244, 993	798, 254	385, 065	2, 707
Mississippi	216, 248	235, 758	235, 966	192, 199	614, 775	292, 403	3, 269
<b>West South Central.</b>	<b>1, 218, 509</b>	<b>1, 286, 179</b>	<b>1, 233, 234</b>	<b>1, 070, 051</b>	<b>3, 749, 358</b>	<b>1, 667, 113</b>	<b>19, 780</b>
Arkansas	220, 811	228, 488	221, 471	183, 852	602, 363	293, 535	1, 984
Louisiana	209, 213	229, 230	219, 227	188, 305	604, 714	289, 495	4, 825
Oklahoma	252, 578	261, 754	247, 437	209, 335	726, 212	327, 086	3, 281
Texas	533, 907	572, 707	545, 099	488, 559	1, 756, 069	756, 397	10, 490
<b>Mountain.</b>	<b>396, 814</b>	<b>374, 824</b>	<b>335, 530</b>	<b>285, 204</b>	<b>1, 304, 365</b>	<b>626, 303</b>	<b>13, 061</b>
Montana	67, 372	60, 074	51, 327	42, 028	225, 192	100, 959	1, 937
Idaho	54, 536	51, 279	46, 597	38, 319	161, 681	79, 115	939
Wyoming	22, 624	20, 885	17, 458	14, 780	86, 411	31, 469	875
Colorado	97, 058	95, 086	89, 214	78, 632	366, 496	205, 489	7, 654
New Mexico	46, 399	46, 366	40, 925	34, 660	129, 822	61, 733	455
Arizona	40, 807	37, 894	32, 673	28, 435	139, 144	54, 184	1, 025
Utah	61, 375	56, 491	51, 626	43, 373	161, 093	74, 977	461
Nevada	6, 743	6, 759	5, 710	4, 977	34, 526	18, 377	315
<b>Pacific.</b>	<b>473, 479</b>	<b>481, 621</b>	<b>445, 843</b>	<b>412, 586</b>	<b>2, 340, 294</b>	<b>1, 897, 988</b>	<b>15, 060</b>
Washington	126, 434	128, 258	117, 553	106, 485	504, 273	308, 831	4, 787
Oregon	71, 318	73, 084	69, 014	62, 775	314, 820	191, 524	854
California	275, 727	280, 279	259, 276	243, 326	1, 461, 201	897, 633	9, 419

Source. Bureau of the Census, Department of Commerce.

## RACE, BY STATES

was incomplete, consequently, 1860 is shown

1890— Contd	1900			1910			1920			Division and State
	All other	White	Negro	All other	White	Negro	All other	White	Negro	All other
357,780	66,808,196	8,833,984	361,385	81,731,957	9,827,783	412,546	94,820,915	10,463,131	426,574	U S.
2,978	5,527,026	59,089	5,892	6,480,514	66,806	5,861	7,316,079	79,051	5,779	N. E.
633	692,226	1,319	921	739,995	1,363	1,013	765,695	1,310	1,009	Me.
76	410,791	662	135	429,906	564	102	442,331	621	131	N. H.
67	342,771	826	44	354,298	1,621	37	351,817	572	39	Vt.
1,430	2,769,764	31,974	3,608	3,324,926	38,055	3,435	3,803,524	45,466	3,306	Mass.
254	419,050	9,092	414	532,492	9,529	589	593,980	10,036	381	R. I.
518	892,424	15,226	770	1,098,897	15,174	685	1,358,732	21,016	853	Conn.
12,100	15,110,862	325,921	17,895	18,880,452	417,870	17,570	21,641,840	600,183	19,121	M. A.
9,127	7,156,831	99,232	12,781	8,966,845	134,191	12,578	10,172,027	198,483	14,717	N. Y.
714	1,812,317	69,844	1,508	2,445,894	89,760	1,513	3,037,078	117,132	1,681	N. J.
2,259	6,141,664	156,845	3,606	7,407,713	193,919	3,479	8,432,726	284,568	2,723	Pa.
17,557	15,710,053	257,842	17,688	17,927,622	300,836	22,163	20,938,892	514,554	22,127	E. N. C.
411	4,060,204	96,901	440	4,654,897	111,452	772	5,571,893	189,187	1,314	Ohio.
453	2,458,502	57,505	455	2,639,961	60,320	595	2,849,071	80,810	509	Ill.
852	4,734,873	85,078	1,599	5,266,962	109,049	2,580	6,299,333	182,274	3,673	Mich.
5,783	2,398,563	15,816	6,003	2,785,247	17,115	7,811	3,601,627	60,082	6,703	Wis.
10,568	2,057,911	2,542	8,589	2,320,555	2,900	10,405	2,616,938	5,201	9,928	Mich.
47,935	10,065,817	237,909	43,697	11,351,621	242,662	43,638	12,235,397	278,521	40,341	W. N. C.
10,192	1,737,036	4,959	9,399	2,059,227	7,084	9,397	2,368,936	8,809	9,380	Minn.
522	2,218,667	12,693	493	2,209,191	14,973	607	2,384,181	19,005	835	Iowa.
543	2,944,842	161,234	588	3,134,932	157,452	951	3,225,044	178,241	770	Mo.
8,203	311,712	286	7,148	569,855	617	6,584	639,954	467	6,451	N. Dak.
20,049	380,714	465	20,391	563,771	817	19,300	619,147	832	16,568	S. Dak.
6,647	1,056,526	6,269	3,505	1,180,293	7,689	4,232	1,279,219	13,242	3,911	Nebr.
1,779	1,416,319	52,003	2,173	1,634,352	54,030	2,567	1,708,906	57,925	2,426	Kans.
3,083	6,706,058	3,729,017	8,405	8,071,603	4,112,438	10,804	9,648,940	4,325,120	18,212	S. A.
141	153,977	30,697	61	171,102	31,181	39	192,615	30,335	53	Del.
240	952,424	235,064	550	1,062,639	232,250	457	1,204,737	244,479	445	Md.
125	191,532	86,702	484	236,128	94,446	495	326,860	109,966	745	D. C.
420	1,192,855	660,722	607	1,389,809	671,096	707	1,617,909	690,017	1,261	Va.
27	915,233	43,499	68	1,156,817	64,173	129	1,377,235	80,345	121	W. Va.
1,549	1,203,603	624,469	5,738	1,500,511	697,843	7,933	1,733,779	703,407	11,937	N. C.
207	557,807	782,321	128	679,161	835,843	396	1,183,598	864,719	467	S. C.
181	1,181,294	1,034,513	224	1,431,802	1,176,987	332	1,659,114	1,206,365	353	Ga.
293	297,333	230,730	479	443,634	308,669	316	638,153	329,487	830	Fla.
3,689	5,044,847	2,499,886	3,024	5,754,326	2,652,513	3,062	6,367,547	2,523,532	2,228	E. S. C.
102	1,862,309	284,706	159	2,027,951	261,656	298	2,180,560	235,938	132	Ky.
203	1,540,186	480,243	187	1,711,432	473,088	269	1,885,993	451,753	134	Tenn.
1,194	1,001,152	827,307	238	1,228,832	908,282	979	1,447,032	900,652	490	Ala.
2,190	641,200	907,630	2,440	786,111	1,069,487	1,516	853,962	935,184	1,472	Miss.
67,257	4,771,065	1,694,066	67,159	6,721,491	1,984,426	78,617	8,115,727	2,068,579	62,918	W. S. C.
342	944,580	366,856	128	1,131,026	442,891	532	1,279,757	472,220	227	Ark.
1,000	729,612	650,804	1,209	941,086	713,874	1,428	1,006,611	700,257	1,641	La.
64,494	670,204	55,684	64,503	1,444,531	137,612	75,012	1,821,194	149,408	57,681	Okla.
1,421	2,426,669	620,722	1,319	3,204,848	690,049	1,645	3,918,165	741,694	3,369	Tex.
83,601	1,579,855	15,590	79,212	2,520,455	21,467	91,695	3,212,899	30,801	92,401	Mt.
13,744	226,283	1,523	15,523	360,580	1,834	13,639	534,260	1,658	12,971	Mont.
6,230	154,495	293	6,984	319,221	651	5,722	425,668	920	5,278	Idaho.
2,309	89,051	940	2,540	140,318	2,235	3,412	190,146	1,375	2,881	Wyo.
2,500	529,046	8,570	2,084	783,415	11,453	4,156	924,103	11,318	4,208	Colo.
15,408	180,207	1,810	13,493	304,594	1,628	21,079	354,673	5,733	19,944	N. Mex.
31,152	92,903	1,848	28,180	171,468	2,009	30,577	291,449	8,005	34,708	Ariz.
4,266	272,465	672	3,612	366,583	1,144	5,624	441,901	1,446	6,049	Utah.
7,992	35,405	134	6,796	74,276	513	7,086	70,699	340	6,362	Nev.
119,580	2,283,613	14,664	108,415	4,023,879	28,195	139,236	5,353,634	47,790	165,447	Pac.
14,801	496,304	2,514	19,285	1,109,111	6,058	26,821	1,319,777	8,883	29,961	Wash.
14,536	394,582	1,105	17,849	655,090	1,492	16,183	769,146	2,144	12,069	Oreg.
90,243	1,402,727	11,045	71,281	2,259,672	21,645	96,232	3,264,711	38,763	123,387	Calif.

\* Dakota Territory; see footnote 5, Table 12.

\* Area now constituting West Virginia formed part of Virginia in 1860.

\* Includes population of Indian Territory for 1890 and 1900

## No. 16.—RACE, NATIVITY,

NOTE.—For total white

Division and State	Native white						Foreign-born white
	Native parentage		Foreign parentage		Mixed native and foreign parentage		
	1910	1920	1910	1920	1910	1920	
Continental United States.	49,488,575	58,421,957	12,916,311	15,694,539	5,981,526	6,991,665	13,345,545
New England.....	2,613,419	2,803,149	1,460,565	1,906,340	592,144	735,936	1,814,386
Maine.....	494,907	495,780	73,455	86,150	61,500	76,416	110,133
New Hampshire.....	230,231	225,512	67,601	81,039	35,516	44,547	96,558
Vermont.....	229,382	228,325	39,507	42,100	35,548	36,866	49,861
Massachusetts.....	1,103,429	1,230,773	846,820	1,093,258	323,627	401,959	1,051,050
Rhode Island.....	159,821	173,553	144,270	182,660	50,376	64,268	178,025
Connecticut.....	395,649	449,206	288,912	421,133	85,577	111,880	328,759
Middle Atlantic.....	8,462,961	9,631,012	4,113,076	5,397,951	1,478,236	1,700,302	4,826,179
New York.....	3,230,325	3,668,266	2,241,837	2,844,083	765,411	873,566	2,729,272
New Jersey.....	1,009,909	1,212,675	576,011	829,058	201,786	256,741	658,188
Pennsylvania.....	4,222,727	4,750,071	1,295,228	1,724,810	511,039	569,995	1,438,719
East North Central.....	9,751,968	11,790,370	3,450,015	4,043,692	1,658,419	1,881,521	3,067,920
Ohio.....	3,033,259	3,669,122	671,275	838,251	353,118	385,823	597,245
Indiana.....	2,130,088	2,329,544	211,008	227,066	139,543	141,593	159,322
Illinois.....	2,600,555	3,066,563	1,232,155	1,467,036	491,692	558,783	1,202,560
Michigan.....	1,224,841	1,670,447	611,319	775,288	353,563	429,257	595,524
Wisconsin.....	763,225	1,054,694	724,258	736,051	320,503	366,065	512,569
West North Central.....	6,523,687	7,475,548	2,102,703	2,126,126	1,112,000	1,251,752	1,613,231
Minnesota.....	575,081	827,627	667,460	708,126	273,676	347,019	543,010
Iowa.....	1,303,526	1,528,553	395,541	376,710	236,640	253,271	273,484
Missouri.....	2,387,835	2,536,936	312,027	300,064	206,174	202,018	228,896
North Dakota.....	162,461	207,966	180,054	203,973	71,182	96,512	156,158
South Dakota.....	245,652	308,598	143,045	141,341	74,446	86,817	100,628
Nebraska.....	642,075	757,064	234,670	231,948	127,683	140,555	175,865
Kansas.....	1,207,057	1,308,804	169,906	163,964	122,199	125,660	135,190
South Atlantic.....	7,341,205	8,779,416	274,451	353,643	165,392	199,861	290,555
Delaware.....	127,809	159,876	17,566	23,288	8,307	9,641	17,420
Maryland.....	766,627	893,088	130,321	143,203	61,517	66,269	104,174
Dist. of Columbia.....	166,711	239,488	26,522	35,129	18,544	23,695	24,351
Virginia.....	1,325,238	1,534,494	21,613	30,514	16,330	22,116	26,628
West Virginia.....	1,042,107	1,232,857	35,407	56,625	22,231	25,847	57,072
North Carolina.....	1,485,718	1,765,203	3,886	5,737	4,965	5,740	9,042
South Carolina.....	1,661,970	1,799,418	5,759	7,025	5,378	5,694	9,054
Georgia.....	1,391,058	1,642,697	13,232	16,371	12,440	13,860	15,072
Florida.....	373,967	532,295	20,145	35,751	15,680	27,099	33,842
East South Central.....	5,452,492	6,092,782	123,915	115,484	91,082	87,342	88,857
Kentucky.....	1,863,194	2,039,134	76,523	65,981	48,181	44,715	40,053
Tennessee.....	1,654,006	1,832,757	20,572	20,423	17,795	17,335	18,459
Alabama.....	1,177,459	1,394,129	17,667	19,591	14,750	15,650	18,956
Mississippi.....	757,233	826,762	9,153	9,539	10,336	9,642	9,389
West South Central.....	5,767,449	6,959,785	364,032	415,799	241,251	280,810	348,759
Arkansas.....	1,077,509	1,226,692	18,387	19,030	18,221	20,060	16,909
Louisiana.....	776,587	941,724	68,389	67,016	44,328	43,000	51,782
Oklahoma.....	1,310,403	1,679,107	49,877	53,083	44,167	49,036	40,084
Texas.....	2,602,950	3,112,262	227,379	276,670	134,535	168,714	239,984
Mountain.....	1,466,624	2,002,508	370,009	451,132	246,912	306,034	436,910
Montana.....	162,127	275,803	68,606	101,918	38,203	62,919	91,644
Idaho.....	203,599	294,252	40,075	47,920	35,120	44,533	40,427
Wyoming.....	80,696	122,834	19,751	25,234	12,753	16,773	27,118
Colorado.....	475,136	603,041	114,747	130,059	66,681	74,049	126,851
New Mexico.....	255,609	273,317	14,410	18,865	11,921	13,414	22,654
Arizona.....	82,468	151,145	26,117	39,534	16,059	22,671	46,824
Utah.....	171,663	245,781	73,983	75,901	57,544	63,764	63,393
Nevada.....	35,326	36,285	12,320	11,701	8,631	7,911	17,999
Pacific.....	2,108,770	2,897,387	657,545	884,372	396,110	548,007	861,448
Washington.....	585,386	711,706	174,845	214,618	107,683	143,398	241,197
Oregon.....	416,851	497,726	79,336	95,827	55,902	73,442	103,001
California.....	1,106,533	1,677,953	403,364	573,927	232,525	331,167	517,250

Source Bureau of the Census, Department of Commerce.

## AND PARENTAGE, BY STATES

population see Table 15

Foreign-born white—Continued	Negro		Indian		Chinese		Japanese		Division and State
	1910	1920	1910	1920	1910	1920	1910	1920	
13, 712, 754	9, 827, 763	10, 463, 131	265, 683	244, 437	71, 531	61, 639	72, 157	111, 010	U. S.
1, 870, 654	66, 306	79, 051	2, 076	1, 715	3, 499	3, 802	272	347	N. E.
107, 349	1, 363	1, 310	892	839	108	161	13	7	Me.
91, 233	564	621	34	28	67	95	1	8	N. H.
44, 526	1, 621	572	26	24	8	11	3	4	Vt.
1, 077, 534	35, 055	45, 466	688	555	2, 582	2, 544	151	191	Mass.
173, 499	9, 529	10, 036	284	110	272	225	33	35	R. I.
376, 513	15, 174	21, 046	152	159	462	566	71	102	Conn.
4, 912, 575	417, 870	600, 183	7, 717	5, 940	8, 189	8, 812	1, 643	3, 266	M. A.
2, 786, 112	134, 191	198, 483	6, 046	5, 503	5, 268	5, 793	1, 247	2, 686	N. Y.
738, 613	89, 760	117, 132	168	100	1, 139	1, 190	206	325	N. J.
1, 387, 850	193, 919	284, 568	1, 503	337	1, 784	1, 829	190	255	Pa.
3, 223, 279	300, 836	514, 554	18, 255	15, 695	3, 415	5, 043	482	927	E. N. C.
678, 697	111, 452	186, 187	127	151	569	941	76	130	Ohio
150, 868	60, 320	80, 810	279	125	276	283	38	81	Ind.
1, 206, 951	109, 049	182, 274	138	194	2, 103	2, 776	285	472	Ill.
726, 635	17, 115	60, 052	7, 519	5, 614	241	792	49	184	Mich.
460, 128	2, 900	5, 201	10, 142	9, 611	226	251	34	60	Wis.
1, 371, 961	242, 662	278, 521	41, 406	37, 263	1, 195	1, 678	1, 000	1, 215	W. N. C.
486, 164	7, 084	8, 809	9, 053	8, 761	275	508	67	85	Minn.
225, 647	14, 973	19, 005	471	529	97	235	36	29	Iowa.
186, 026	157, 452	178, 241	313	171	535	412	99	135	Mo.
131, 503	617	467	6, 458	6, 254	89	124	59	72	N. Dak.
82, 391	817	832	19, 137	16, 384	121	142	42	38	S. Dak.
149, 652	7, 689	13, 242	3, 502	2, 888	112	189	590	804	Nebr.
110, 578	54, 030	57, 925	2, 444	2, 276	16	68	107	52	Kans.
315, 990	4, 112, 488	4, 325, 120	9, 054	13, 673	1, 582	1, 824	156	360	S. A.
19, 810	31, 181	30, 335	5	2	30	43	4	8	Del.
102, 177	232, 250	244, 479	55	32	378	371	24	29	Md.
28, 548	94, 446	109, 966	68	37	369	461	47	103	D. C.
30, 785	671, 096	690, 017	539	824	154	278	14	56	Va.
61, 906	64, 173	86, 345	36	7	90	98	3	10	W. Va.
7, 099	697, 843	763, 407	7, 851	11, 824	80	88	2	24	N. C.
6, 401	835, 843	864, 719	331	304	57	93	8	15	S. C.
16, 186	1, 176, 987	1, 206, 365	95	125	233	211	4	9	Ga.
43, 008	308, 669	329, 487	74	518	191	181	50	106	Fla.
71, 939	2, 652, 513	2, 523, 532	2, 612	1, 623	414	542	26	35	E. S. C.
30, 780	261, 656	235, 938	234	57	52	62	12	9	Ky.
15, 478	473, 088	451, 758	216	56	43	57	8	8	Tenn.
17, 662	908, 282	900, 652	909	405	62	59	4	18	Ala.
8, 019	1, 009, 487	935, 184	1, 253	1, 105	257	364	2	-----	Miss.
459, 333	1, 984, 426	2, 063, 579	78, 767	60, 618	1, 303	1, 534	428	578	W. S. C.
13, 975	442, 891	472, 220	460	106	62	113	9	5	Ark.
44, 871	713, 874	700, 257	780	1, 066	507	387	31	57	La.
39, 968	137, 612	149, 408	74, 825	57, 337	139	261	48	67	Okl.
360, 519	690, 049	741, 694	702	2, 109	595	773	340	449	Tex.
453, 225	21, 467	30, 801	75, 338	78, 899	5, 614	4, 339	10, 447	10, 792	Mt.
93, 620	1, 834	1, 658	10, 745	10, 956	1, 285	872	1, 585	1, 074	Mont.
38, 963	651	920	3, 488	3, 098	585	585	1, 363	1, 569	Idaho
25, 255	2, 235	1, 375	1, 486	1, 343	246	252	1, 596	1, 194	Wyo.
116, 954	11, 453	11, 318	1, 482	1, 383	373	291	2, 300	2, 464	Colo.
29, 077	1, 628	5, 733	20, 573	19, 512	248	171	258	251	N. Mex.
78, 099	2, 009	8, 005	29, 201	32, 939	1, 305	1, 137	371	550	Ariz.
56, 455	1, 144	1, 446	3, 123	2, 711	371	342	2, 110	2, 936	Utah.
14, 802	513	346	5, 240	4, 907	927	689	864	754	Nev.
1, 033, 868	29, 195	47, 790	32, 458	31, 011	46, 320	34, 285	57, 703	93, 490	Pac.
250, 055	6, 058	6, 883	10, 997	9, 061	2, 709	2, 363	12, 929	17, 887	Wash.
102, 151	1, 492	2, 144	5, 090	4, 590	7, 363	3, 090	3, 418	4, 151	Oreg.
681, 662	21, 645	38, 763	16, 371	17, 360	36, 248	28, 812	41, 356	71, 952	Calif.

## No. 17.—SEX DISTRIBUTION, BY RACE

Division and State	Total population						Native white, 1920		
	1910		1920		Males per 100 females		Male	Female	Males per 100 females
	Male	Female	Male	Female	1910	1920			
<b>Continental United States.</b>	47,332,277	44,639,989	53,900,481	51,810,189	106 0	104 0	40,902,333	40,205,828	101.7
<b>New England</b> .....	3,265,114	3,287,567	3,672,591	3,728,318	99 8	98 5	2,682,175	2,768,250	97 1
Maine.....	377,052	365,319	388,752	379,262	103 2	102 5	331,648	326,698	101 5
New Hampshire.....	216,290	214,282	222,112	220,971	100 9	100 5	174,823	176,275	101 5
Vermont.....	182,568	173,388	178,854	173,574	105 3	103 0	154,793	152,498	101 5
Massachusetts.....	1,655,248	1,711,168	1,890,014	1,962,342	96 7	96 3	1,330,998	1,394,992	95 4
Rhode Island.....	270,314	272,296	297,524	306,873	99 3	97 0	205,967	214,514	96 0
Connecticut.....	563,842	551,114	685,335	685,296	102 3	101 5	483,946	498,273	97 1
<b>Middle Atlantic</b> .....	9,813,266	9,502,628	11,206,445	11,054,689	103 3	101 4	8,272,922	8,456,343	97 8
New York.....	4,584,597	4,529,017	5,187,350	5,197,877	101 2	99 8	3,638,435	3,747,480	97 1
New Jersey.....	1,286,463	1,250,704	1,580,075	1,565,825	102 9	101 5	1,139,491	1,158,983	98 3
Pennsylvania.....	3,942,206	3,722,905	4,429,020	4,290,927	105 9	103 2	3,494,996	3,549,880	98 5
<b>East North Central</b> .....	9,392,839	8,857,782	11,035,041	10,440,502	106 0	105 7	8,938,715	8,776,868	101 8
Ohio.....	2,434,758	2,332,363	2,955,980	2,803,414	104 4	105 4	2,463,320	2,429,876	101 4
Indiana.....	1,383,295	1,317,581	1,489,074	1,441,816	105 0	103 3	1,368,645	1,339,558	101 4
Illinois.....	2,911,674	2,726,917	3,304,833	3,180,447	106 8	103 9	2,550,509	2,541,873	100 3
Michigan.....	1,454,534	1,355,639	1,928,436	1,739,976	107 3	110 8	1,476,459	1,398,533	105 6
Wisconsin.....	1,208,578	1,125,282	1,356,718	1,275,349	107 4	106 4	1,089,782	1,067,028	102 1
<b>West North Central</b> .....	6,092,855	5,545,086	6,450,067	6,085,182	109 9	106 1	5,514,722	5,388,704	103 3
Minnesota.....	1,108,511	967,197	1,245,537	1,141,588	114 6	109 1	957,140	925,632	103 4
Iowa.....	1,148,171	1,076,600	1,229,392	1,174,629	106 6	104 7	1,091,646	1,066,888	102 3
Missouri.....	1,687,813	1,605,622	1,723,319	1,680,736	101 1	102 5	1,528,279	1,510,739	101 2
North Dakota.....	317,554	259,502	341,673	305,199	122 4	112 0	262,645	245,806	106 9
South Dakota.....	317,112	266,776	337,120	299,427	118 9	112 6	280,587	256,169	109 5
Nebraska.....	627,732	564,432	672,905	623,567	111 2	107 9	578,953	550,614	105 1
Kansas.....	885,912	805,037	909,221	860,036	110 0	105 7	815,472	782,856	104 2
<b>South Atlantic</b> .....	6,134,605	6,060,290	7,035,843	6,954,429	101 2	101 2	4,708,147	4,624,873	101 8
Delaware.....	103,435	98,887	113,755	109,248	104 6	104 1	86,680	86,125	100 6
Maryland.....	644,225	651,121	729,455	720,206	98 9	101 3	550,973	551,527	99 9
District of Columbia.....	168,050	173,019	203,543	234,028	91 3	87 0	166,889	161,423	84 8
Virginia.....	1,035,348	1,026,264	1,168,492	1,140,695	100 9	102 4	806,082	781,042	103 2
West Virginia.....	644,044	577,075	763,100	700,601	111 6	108 9	673,959	641,370	105 1
North Carolina.....	1,098,476	1,107,811	1,279,062	1,280,061	99 2	99 9	894,690	881,990	101 4
South Carolina.....	751,842	763,558	838,293	845,431	98 5	99 2	411,728	400,409	102 8
Georgia.....	1,305,019	1,304,102	1,444,823	1,451,009	100 1	99 6	844,105	828,823	101 8
Florida.....	394,166	358,453	495,320	473,150	110 0	104 7	303,081	292,104	103 7
<b>East South Central</b> .....	4,245,169	4,164,732	4,471,690	4,421,617	101 9	101 1	3,184,419	3,111,189	102 4
Kentucky.....	1,161,709	1,128,196	1,227,494	1,189,136	103 0	103 2	1,091,374	1,058,406	103 1
Tennessee.....	1,103,491	1,081,298	1,173,967	1,163,918	102 1	100 9	942,203	928,312	101 5
Alabama.....	1,074,209	1,063,884	1,173,105	1,175,069	101 0	99 8	722,414	706,956	102 2
Mississippi.....	905,760	891,354	897,124	893,494	101 6	100 4	428,428	417,515	102 6
<b>West South Central</b> .....	4,544,505	4,240,029	5,265,829	4,978,395	107 2	105 8	3,948,100	3,713,294	106 2
Arkansas.....	810,026	764,423	895,228	856,976	106 0	104 5	649,578	616,204	105 4
Louisiana.....	835,275	821,113	908,385	895,174	101 7	100 9	530,690	521,050	101 9
Oklahoma.....	881,578	775,577	1,058,044	970,239	113 7	109 0	927,760	853,466	108 7
Texas.....	2,017,626	1,878,916	2,409,222	2,254,006	107 4	106 9	1,835,072	1,722,574	106 5
<b>Mountain</b> .....	1,478,018	1,155,499	1,789,298	1,546,802	127 9	115 7	1,446,336	1,313,338	110 1
Montana.....	226,872	149,181	299,941	248,948	152 1	120 5	233,363	207,277	112 6
Idaho.....	185,546	140,048	233,919	197,947	132 5	118 2	205,259	181,446	113 1
Wyoming.....	91,670	54,295	110,359	84,043	168 3	131 3	90,567	74,324	121 9
Colorado.....	430,697	368,327	492,731	446,898	116 9	110 3	416,026	391,128	106 4
New Mexico.....	175,246	152,056	190,456	169,894	115 3	112 1	158,505	147,093	107 8
Arizona.....	118,574	85,780	183,602	150,560	138 2	121 9	114,688	98,662	116 2
Utah.....	196,863	176,488	232,051	217,345	111 5	106 8	196,357	189,089	103 8
Nevada.....	52,551	29,324	46,240	31,167	179 2	148 4	31,571	24,326	129 8
<b>Pacific</b> .....	2,365,908	1,826,398	2,964,626	2,602,245	129 5	113 9	2,211,797	2,107,969	104 9
Washington.....	658,063	483,327	734,701	621,920	138 3	118 1	558,575	511,147	109 3
Oregon.....	394,265	288,500	416,334	367,055	133 2	113 4	344,849	322,144	107 0
California.....	1,322,978	1,054,571	1,813,591	1,613,270	125 5	112 4	1,308,373	1,274,676	102 6

Source: Bureau of the Census, Department of Commerce.



## AND NATIVITY, BY STATES

Foreign-born white, 1920			Negro, 1920			Indian, 1920		Chinese, 1920		Japanese, 1920		Division and State
Male	Fe- male	Males per 100 fe- males	Male	Fe- male	Males per 100 fe- males	Male	Fe- male	Male	Fe- male	Male	Fe- male	
7, 528, 322	6, 184, 432	121	75, 209, 436	5, 253, 695	99.2	125, 068	119, 369	53, 891	7, 748	72, 707	38, 303	U. S.
945, 736	924, 918	102.3	40, 155	38, 896	103.2	848	887	3, 301	301	284	63	N. E.
55, 807	51, 542	108.3	716	594	120.5	420	419	153	8	7	-----	Me
46, 844	44, 389	105.5	333	238	115.6	18	15	93	2	6	2	N. H.
23, 711	20, 815	113.9	320	122	127.0	15	9	11	-----	4	-----	Vt
533, 319	544, 215	98.0	22, 912	22, 554	101.6	262	293	2, 307	237	149	42	Mass.
86, 164	87, 335	98.7	5, 096	4, 940	103.2	59	51	201	24	31	4	R. I.
199, 891	176, 622	113.2	10, 778	10, 268	105.0	79	80	536	30	87	15	Conn.
2, 617, 566	2, 295, 009	114.1	301, 147	299, 036	100.7	3, 068	2, 872	8, 067	745	2, 647	619	M. A.
1, 442, 575	1, 343, 537	107.4	95, 418	103, 065	92.6	2, 816	2, 687	5, 240	553	2, 190	496	N. Y.
391, 655	346, 958	112.9	57, 432	59, 700	96.2	56	44	1, 132	58	247	78	N. J.
783, 336	604, 514	128.0	148, 297	136, 271	108.8	196	141	1, 695	134	210	45	Pa.
1, 809, 334	1, 413, 945	129.0	273, 026	241, 528	113.0	8, 168	7, 529	4, 623	420	750	177	E. N. C.
391, 344	287, 353	136.2	100, 160	86, 027	116.4	94	57	876	65	104	26	Ohio.
88, 180	62, 688	140.7	41, 817	38, 993	107.2	73	52	276	7	66	15	Ill.
657, 264	549, 687	119.6	93, 835	88, 439	106.1	108	86	2, 523	253	374	98	Mich.
413, 806	312, 829	132.3	34, 249	25, 833	132.6	2, 941	2, 673	717	75	162	22	Wis.
258, 740	201, 388	128.5	2, 965	2, 236	132.6	4, 950	4, 661	231	20	44	16	
779, 022	592, 939	131.4	143, 762	134, 759	106.7	18, 928	18, 337	1, 525	153	946	269	W. N. C.
278, 588	207, 576	134.2	4, 851	3, 958	122.6	4, 424	4, 337	448	60	66	19	Minn.
127, 065	98, 528	128.9	10, 121	8, 884	113.9	280	249	218	17	23	6	Iowa.
103, 418	82, 608	125.2	90, 991	87, 250	104.3	87	84	383	29	115	20	Mo.
75, 386	56, 117	134.8	276	191	144.5	3, 183	3, 071	119	5	69	9	N. Dak.
47, 610	34, 781	136.9	475	357	133.1	8, 295	8, 089	124	16	26	12	S. Dak.
84, 277	65, 375	128.9	7, 309	5, 933	123.2	1, 459	1, 429	169	20	611	103	Nebr.
62, 678	47, 900	130.9	29, 739	28, 186	106.5	1, 198	1, 078	64	4	42	10	Kans.
185, 143	130, 777	141.6	2, 133, 377	2, 191, 743	97.3	6, 923	6, 750	1, 638	186	285	75	S. A.
11, 369	8, 441	134.7	15, 655	14, 680	106.6	2	-----	41	2	8	-----	Del.
54, 628	47, 549	114.9	123, 453	121, 020	102.0	18	14	350	21	22	7	Md.
15, 142	13, 406	112.9	50, 855	50, 111	86.0	20	17	417	44	90	13	D. C.
19, 051	11, 734	162.4	342, 536	347, 481	98.6	423	401	254	24	45	11	Va.
41, 910	19, 996	209.6	47, 129	39, 216	120.2	4	3	85	13	9	1	W. Va.
4, 341	2, 758	157.4	373, 965	389, 442	96.0	5, 972	5, 852	75	13	18	6	N. C.
4, 095	2, 306	177.6	422, 185	442, 534	95.4	145	159	76	17	11	4	S. C.
10, 004	6, 182	161.8	590, 443	615, 922	95.9	68	57	187	24	9	-----	Ga.
24, 603	18, 405	133.7	167, 156	162, 331	103.0	271	247	153	28	73	33	Fla.
42, 093	29, 846	141.0	1, 243, 795	1, 279, 737	97.2	854	789	478	67	27	8	E. S. C.
17, 479	13, 301	131.4	118, 548	117, 390	101.0	27	30	56	6	7	2	Ky.
9, 021	6, 457	139.7	222, 659	229, 119	97.2	33	23	51	6	7	1	Tenn.
10, 625	7, 037	151.0	439, 779	460, 873	95.4	211	194	55	4	13	5	Ala.
4, 968	3, 051	162.8	462, 829	472, 355	98.0	583	522	313	51	-----	-----	Miss.
260, 777	198, 556	131.3	1, 029, 457	1, 034, 122	99.5	30, 542	30, 076	1, 402	132	405	173	W. S. C.
8, 591	5, 384	159.6	236, 895	235, 325	100.7	61	45	97	16	3	2	Ark.
26, 808	18, 063	148.4	344, 794	355, 463	97.0	550	516	346	41	48	9	La.
24, 931	15, 037	165.8	76, 294	73, 114	104.3	28, 750	28, 587	243	18	54	13	Okla.
200, 447	160, 072	125.2	371, 474	370, 220	100.3	1, 181	928	716	57	300	149	Tex.
271, 373	181, 852	149.2	19, 726	11, 075	173.1	39, 803	37, 096	3, 913	426	7, 825	2, 967	Mt.
58, 229	35, 391	164.5	236, 895	235, 325	100.7	5, 679	5, 277	805	67	842	232	Mont.
24, 877	14, 086	176.6	585	335	174.6	1, 577	1, 521	542	43	1, 058	511	Idaho.
16, 934	8, 321	203.5	863	512	168.6	715	628	246	6	952	242	Wyo.
68, 219	48, 735	140.0	5, 834	5, 484	106.4	734	649	252	39	1, 601	863	Colo.
16, 845	12, 232	137.7	4, 593	1, 140	402.9	10, 149	9, 363	161	10	290	51	N. Mex.
44, 657	33, 442	133.5	5, 859	2, 146	273.0	17, 028	15, 961	963	174	353	167	Ariz.
30, 875	25, 580	120.7	834	612	136.3	1, 442	1, 269	314	28	2, 174	762	Utah.
10, 737	4, 065	264.1	196	150	130.7	2, 479	2, 428	630	59	615	139	Nev.
617, 278	416, 590	148.2	24, 991	22, 799	109.6	15, 933	15, 073	28, 947	5, 318	59, 538	33, 952	Pac.
153, 118	96, 937	158.0	3, 957	2, 926	135.2	4, 552	4, 509	2, 083	275	11, 322	6, 065	Wash.
62, 310	39, 841	156.4	1, 197	947	126.4	2, 301	2, 289	2, 629	461	2, 802	1, 349	Oreg.
401, 850	279, 812	143.6	19, 837	18, 926	104.8	9, 085	8, 275	24, 230	4, 582	45, 414	26, 538	Calif.

## No. 18.—AGE DISTRIBUTION: PERCENTAGES, BY STATES

NOTE.—Per cent which persons of each age group form of total Per cents based on total, including the small number of persons of unknown age, for whom percentages are not shown

Division and State	Per cent in age group—											
	Under 5 years		5 to 9 years		10 to 14 years		15 to 19 years		20 to 44 years		45 years and over	
	1910	1920	1910	1920	1910	1920	1910	1920	1910	1920	1910	1920
Continental States	11.6	10.9	10.6	10.8	9.9	10.1	9.9	8.9	39.0	38.4	18.9	20.8
New England	9.8	10.2	8.9	9.5	8.5	8.8	8.9	8.0	40.8	38.9	23.0	24.6
Maine	9.7	9.8	9.0	9.3	8.7	9.1	8.8	8.3	36.5	35.3	27.2	28.1
New Hampshire	9.2	9.3	8.6	9.0	8.4	8.8	8.8	7.9	37.7	36.2	27.1	28.6
Vermont	9.6	9.8	9.2	9.5	8.8	9.2	8.8	8.4	36.5	34.4	27.0	28.5
Massachusetts	9.8	10.0	8.8	9.3	8.5	8.7	8.8	7.8	42.2	39.9	21.9	24.1
Rhode Island	10.0	10.3	8.9	9.6	8.7	8.9	9.6	8.5	41.9	39.2	20.8	23.3
Connecticut	10.1	11.1	9.1	10.1	8.5	8.8	9.1	7.7	41.4	39.9	21.7	22.2
Middle Atlantic	10.6	10.6	9.4	10.1	8.9	9.2	9.3	8.2	41.8	40.2	19.8	21.7
New York	9.9	9.7	8.8	9.4	8.6	8.7	9.2	7.9	42.8	41.7	20.5	22.6
New Jersey	10.5	10.7	9.5	10.2	9.0	9.2	9.3	8.1	42.0	40.6	19.5	21.1
Pennsylvania	11.5	11.5	10.1	10.8	9.3	9.8	9.4	8.5	40.5	38.3	19.1	20.9
East North Central	10.5	10.3	9.7	9.9	9.4	9.1	9.6	8.3	39.5	39.6	21.2	22.5
Ohio	10.1	10.2	9.2	9.5	8.9	8.8	9.4	8.1	40.0	40.1	22.3	23.2
Indiana	10.2	9.9	9.8	9.7	9.5	9.4	9.6	8.7	38.3	37.4	22.5	24.8
Illinois	10.6	10.1	9.7	9.9	9.2	9.2	9.7	8.3	41.3	40.7	19.3	21.6
Michigan	10.6	11.0	9.8	10.0	9.2	8.9	9.5	8.1	38.3	40.2	22.4	21.7
Wisconsin	11.0	10.8	10.6	10.5	10.5	9.9	10.4	9.0	36.8	37.5	20.5	22.1
West North Central	11.3	10.7	10.6	10.5	10.1	10.0	10.2	9.1	38.4	37.9	19.3	21.7
Minnesota	10.9	11.0	10.6	10.4	10.3	9.8	10.4	9.2	39.0	38.8	18.5	20.8
Iowa	10.6	10.4	10.3	10.0	10.0	9.5	10.1	8.9	37.4	37.6	21.5	23.4
Missouri	10.9	9.6	10.3	9.9	9.8	9.8	10.1	9.0	38.9	38.3	19.7	23.2
North Dakota	14.3	14.1	12.1	13.3	10.3	11.6	9.8	9.5	39.8	35.6	16.6	15.9
South Dakota	12.6	12.5	11.5	11.7	10.3	10.4	10.0	9.3	38.9	37.7	13.6	18.0
Nebraska	11.8	11.0	10.7	10.8	10.2	10.2	10.4	9.2	38.0	38.1	18.7	20.4
Kansas	11.3	10.6	10.5	10.5	10.0	10.1	10.1	9.2	37.6	37.0	20.3	22.4
South Atlantic	13.6	12.4	12.5	12.5	11.4	11.7	10.6	10.1	35.6	35.7	18.2	17.6
Delaware	9.9	10.3	9.5	9.5	9.5	9.1	9.6	8.3	38.9	38.9	22.4	23.7
Maryland	10.6	10.1	10.3	9.9	10.0	9.6	9.9	9.0	38.6	38.9	20.5	22.3
District of Columbia	8.1	7.0	7.6	6.8	7.4	6.8	8.5	7.7	46.5	48.5	21.5	22.8
Virginia	13.0	12.0	12.4	12.3	11.5	11.5	10.5	10.1	35.0	35.4	17.3	18.5
West Virginia	13.8	13.4	12.1	12.6	10.7	11.2	10.2	9.7	37.1	35.9	15.5	17.1
North Carolina	15.1	14.0	13.4	13.9	12.1	12.5	11.0	10.5	32.6	33.0	15.7	16.0
South Carolina	15.1	13.6	13.8	14.0	12.7	13.2	11.4	10.9	33.4	33.8	13.5	14.4
Georgia	14.4	12.5	13.3	13.2	12.1	12.6	10.7	10.6	34.7	34.9	14.6	16.0
Florida	12.9	10.9	12.1	11.5	10.7	11.0	10.1	9.5	39.0	37.5	14.8	19.4
East South Central	13.8	12.2	12.7	12.7	11.5	12.2	10.8	10.2	35.1	34.8	15.9	17.9
Kentucky	12.9	12.1	11.9	11.9	11.0	11.2	10.6	9.8	35.7	35.0	17.8	19.9
Tennessee	13.5	12.0	12.3	12.2	11.1	11.8	10.9	10.2	35.2	35.0	16.8	18.6
Alabama	14.6	12.8	13.3	13.6	11.8	12.8	10.7	10.4	34.4	34.0	14.9	16.4
Mississippi	14.4	12.1	13.6	13.2	12.2	13.2	10.9	10.7	34.8	34.3	13.7	16.3
West South Central	14.1	11.9	13.1	12.6	11.6	12.0	10.8	10.4	35.8	36.6	14.4	16.3
Arkansas	14.7	12.6	13.3	13.0	11.4	12.6	11.0	10.5	34.7	34.4	14.7	16.8
Louisiana	13.5	11.6	13.2	12.4	11.7	12.2	10.6	10.5	36.5	37.0	14.2	16.1
Oklahoma	14.6	12.5	13.1	12.9	11.2	12.2	10.5	10.3	36.2	35.8	14.1	16.2
Texas	13.8	11.4	13.1	12.3	11.7	11.7	10.9	10.5	35.9	37.7	14.5	16.2
Mountain	11.6	11.9	10.4	11.2	9.1	10.1	8.9	8.5	42.7	39.1	17.0	18.8
Montana	10.2	12.3	9.1	10.9	7.9	9.4	7.9	7.7	47.9	41.0	16.2	18.4
Idaho	12.4	12.6	11.1	11.9	9.8	10.8	9.3	8.9	40.8	37.4	16.2	18.3
Wyoming	10.5	11.6	8.9	10.7	7.4	9.0	7.9	7.6	51.1	44.4	14.0	16.2
Colorado	10.3	10.3	9.5	10.1	8.7	9.5	8.9	8.4	43.0	39.0	19.3	21.9
New Mexico	13.8	12.9	12.5	12.9	10.5	11.4	9.9	9.6	37.0	36.0	16.1	17.1
Arizona	12.1	12.2	10.7	11.3	8.9	9.8	8.5	8.5	43.8	41.8	15.7	16.2
Utah	14.1	13.7	12.3	12.6	10.7	11.5	10.0	9.7	37.4	35.8	15.1	16.7
Nevada	7.8	8.7	6.9	8.7	6.0	7.4	6.4	6.4	51.0	44.6	21.2	23.7
Pacific	8.6	8.5	7.9	8.7	7.7	8.0	8.5	7.4	45.3	42.0	21.5	25.1
Washington	9.5	9.3	8.7	9.5	8.1	8.7	8.7	7.8	45.8	41.6	18.5	22.8
Oregon	8.9	9.1	8.5	9.3	8.3	8.8	9.0	8.0	44.1	40.2	20.9	24.4
California	8.1	8.0	7.4	8.2	7.3	7.6	8.2	7.1	45.5	42.6	23.1	26.2

## No. 19.—RACE, NATIVITY, AND PARENTAGE: PERCENTAGES, BY STATES

Division and State	Per cent of total population						Per cent of white population						
	White			Negro			Native, 1920				Foreign born		
	1900	1910	1920	1900	1910	1920	Total	Native parent- age	For- eign parent- age	Mixed parent- age	1900	1910	1920
Continental United States	87.9	88.9	89.7	11.6	10.7	9.9	85.5	61.6	16.6	7.4	15.3	16.3	14.5
New England	98.8	98.9	98.9	1.1	1.0	1.1	74.4	38.3	26.1	10.1	26.0	28.0	25.6
Maine	99.7	99.7	99.7	0.2	0.2	0.2	86.0	64.7	11.3	10.0	13.4	14.9	14.0
New Hampshire	99.8	99.8	99.8	0.2	0.1	0.1	79.4	51.0	18.3	10.1	21.4	22.5	20.6
Vermont	99.7	99.5	99.8	0.2	0.5	0.2	87.3	64.9	12.0	10.5	13.0	14.1	12.7
Massachusetts	98.7	98.8	98.7	1.1	1.1	1.2	71.7	32.4	28.7	10.6	30.3	31.6	28.3
Rhode Island	97.8	98.1	98.3	2.1	1.8	1.7	70.8	29.2	30.8	10.8	31.9	33.4	29.2
Connecticut	98.2	98.6	98.4	1.7	1.4	1.5	72.3	33.1	31.0	8.2	26.6	29.9	27.7
Middle Atlantic	97.8	97.7	97.2	2.1	2.2	2.7	77.3	44.5	24.9	7.9	21.9	25.6	22.7
New York	98.4	98.4	97.9	1.4	1.5	1.9	72.6	36.1	28.0	8.6	26.4	30.4	27.4
New Jersey	96.2	96.4	96.2	3.7	3.5	3.7	75.7	39.9	27.3	8.5	23.7	26.9	24.3
Pennsylvania	97.5	97.4	96.7	2.5	2.5	3.3	83.5	56.3	20.5	6.8	16.0	19.3	16.5
East North Central	98.3	98.2	97.5	1.6	1.6	2.4	84.6	56.3	19.3	9.0	16.7	17.1	15.4
Ohio	97.7	97.6	96.7	2.3	2.3	3.2	87.8	65.9	15.0	6.9	11.3	12.8	12.2
Indiana	97.7	97.7	97.2	2.3	2.2	2.8	94.7	81.8	8.0	5.0	5.8	6.0	5.3
Illinois	98.2	98.0	97.1	1.8	1.9	2.8	80.8	48.7	23.3	8.9	20.4	21.8	19.2
Michigan	99.1	99.1	98.2	0.7	0.6	1.6	79.8	46.4	21.5	11.9	22.5	21.4	20.2
Wisconsin	99.5	99.4	99.4	0.1	0.1	0.2	82.4	40.3	28.1	14.0	25.1	22.1	17.6
West North Central	97.3	97.5	97.5	2.3	2.1	2.2	88.8	61.1	17.4	10.2	15.2	14.2	11.2
Minnesota	99.2	99.2	99.2	0.3	0.3	0.4	79.5	34.9	29.9	14.6	29.1	26.4	20.5
Iowa	99.4	99.3	99.2	0.6	0.7	0.8	90.8	50.5	15.8	10.6	13.8	12.4	9.5
Missouri	94.8	95.2	94.7	5.2	4.8	5.2	94.2	78.7	9.3	6.3	7.3	7.3	5.8
North Dakota	97.7	98.8	98.9	0.1	0.1	0.1	79.5	32.5	31.9	15.1	36.1	27.4	20.5
South Dakota	94.8	96.6	97.3	0.1	0.1	0.1	86.7	49.8	22.8	14.0	23.2	17.8	13.3
Nebraska	99.1	99.0	98.7	0.6	0.6	1.0	88.3	59.2	18.1	11.0	16.8	14.9	11.7
Kansas	96.3	96.7	96.6	3.5	3.2	3.3	93.5	76.6	9.6	7.3	8.9	8.3	6.5
South Atlantic	64.2	66.2	69.0	35.7	33.7	30.9	96.7	91.0	3.7	2.1	3.1	3.6	3.3
Delaware	83.4	84.6	86.4	16.6	15.4	13.6	89.7	72.6	12.1	5.0	8.9	10.2	10.3
Maryland	80.2	82.0	83.1	19.8	17.9	16.9	91.5	74.1	11.9	5.5	9.8	9.8	8.5
Dist. of Columbia	68.7	71.3	74.7	31.1	28.5	25.1	91.3	73.3	10.7	7.2	10.2	10.3	8.7
Virginia	64.3	67.4	70.1	35.6	32.6	29.9	98.1	94.8	1.9	1.4	1.6	1.9	1.9
West Virginia	95.5	94.7	94.1	4.5	5.3	5.9	95.5	89.5	4.1	1.9	2.4	4.9	4.5
North Carolina	66.7	68.0	69.7	33.0	31.6	29.8	98.6	90.0	0.3	0.3	0.3	0.4	0.4
South Carolina	41.6	44.8	48.6	55.4	55.2	51.4	99.2	97.7	0.9	0.7	1.0	0.9	0.8
Georgia	53.3	54.9	58.3	46.7	45.1	41.7	99.0	97.3	1.0	0.8	1.0	1.1	1.0
Florida	56.3	58.9	65.9	43.7	41.0	34.0	93.3	83.4	5.6	4.2	6.5	7.6	6.7
East South Central	66.8	68.4	71.6	33.1	31.5	28.4	98.9	95.7	1.8	1.4	1.8	1.5	1.1
Kentucky	86.7	88.6	90.2	13.3	11.4	9.8	98.6	93.5	3.0	2.1	2.7	2.0	1.4
Tennessee	76.2	78.3	80.7	23.8	21.7	19.3	90.2	97.2	1.1	0.9	1.1	1.1	0.8
Alabama	54.7	57.5	61.6	45.2	42.5	38.4	98.8	96.3	1.4	1.1	1.4	1.5	1.2
Mississippi	41.3	43.7	47.7	58.5	56.2	52.2	99.1	96.8	1.1	1.1	1.2	1.2	0.9
West South Central	73.0	76.5	79.2	25.9	22.6	20.1	94.3	85.8	5.1	3.5	5.5	5.2	5.7
Arkansas	72.0	71.8	73.0	28.0	28.1	27.0	98.9	95.9	1.5	1.6	1.5	1.5	1.1
Louisiana	52.8	56.8	61.0	47.1	43.1	38.9	95.9	85.9	6.1	3.9	7.1	5.5	4.1
Oklahoma <sup>1</sup>	84.8	87.2	89.8	7.0	8.3	7.4	97.8	92.2	2.9	2.7	3.0	2.8	2.2
Texas	79.6	82.2	84.0	24.4	17.7	15.9	90.8	79.4	7.1	4.3	7.3	7.5	9.2
Mountain	94.3	95.7	96.3	0.9	0.8	0.9	85.9	62.3	14.0	9.5	18.3	17.3	14.1
Montana	93.0	95.9	97.3	0.6	0.5	0.3	82.5	51.6	19.1	11.8	27.6	25.4	17.5
Idaho	95.5	98.0	98.6	0.2	0.2	0.2	90.8	69.1	11.3	10.5	14.2	12.7	9.2
Wyoming	96.2	96.1	97.3	1.0	1.5	0.7	86.7	64.6	13.3	8.8	18.6	19.3	13.3
Colorado	98.0	98.0	98.3	1.6	1.4	1.2	87.3	65.3	14.1	8.0	17.1	16.2	12.7
New Mexico	92.3	93.1	92.9	0.8	0.5	1.6	91.3	81.7	5.6	4.0	7.4	7.4	8.7
Arizona	75.6	83.9	87.2	1.5	1.0	2.4	73.2	51.9	13.6	7.8	24.1	27.3	26.8
Utah	98.5	98.2	98.3	0.2	0.3	0.3	87.2	55.6	17.2	14.4	19.4	17.3	12.8
Nevada	83.6	90.7	91.3	0.3	0.6	0.4	79.1	51.3	16.6	11.2	24.2	24.2	20.9
Pacific	94.9	96.0	96.2	0.6	0.7	0.9	80.7	53.9	16.5	10.2	20.6	21.4	19.3
Washington	95.8	97.1	97.3	0.5	0.5	0.5	81.1	53.9	16.3	10.9	20.6	21.7	18.9
Oregon	95.4	97.4	98.2	0.3	0.2	0.3	86.7	64.7	12.5	9.5	13.7	15.7	13.3
California	94.5	95.0	95.3	0.7	0.9	1.1	79.1	51.4	17.6	10.1	22.6	22.9	20.9

<sup>1</sup> Includes population of Indian Territory for 1900

Source Bureau of the Census, Department of Commerce

## No. 20.—PERSONS 21 YEARS OF AGE AND OVER, BY CLASSES AND

Division and State	Persons 21 years of age and over							
	All classes			Native white				
	Total	Male	Female	Total		Native parentage		
				Male	Female	Male	Female	
Continental United States.....	60,886,580	31,403,370	29,483,150	21,513,948	21,100,793	15,805,063	15,202,194	
New England.....	4,591,477	2,269,655	2,321,822	1,372,641	1,456,696	841,957	873,707	
Maine.....	475,191	241,778	233,413	191,540	187,816	156,550	153,041	
New Hampshire.....	281,026	141,204	139,822	98,448	100,033	73,113	73,232	
Vermont.....	217,042	110,378	106,664	89,687	88,745	68,251	66,884	
Massachusetts.....	2,411,507	1,172,359	1,239,148	663,262	726,179	360,244	389,517	
Rhode Island.....	368,637	179,720	188,917	97,955	106,961	49,559	52,202	
Connecticut.....	838,074	424,216	413,858	231,739	246,962	134,210	138,331	
Middle Atlantic.....	13,451,656	6,892,683	6,548,993	4,173,521	4,376,445	2,701,397	2,771,534	
New York.....	6,514,681	3,255,593	3,259,178	1,858,523	1,974,329	1,055,138	1,086,508	
New Jersey.....	1,897,884	960,837	937,047	561,055	584,451	344,605	350,444	
Pennsylvania.....	5,039,091	2,586,323	2,452,768	1,753,943	1,817,665	1,301,664	1,334,582	
East North Central.....	13,025,595	6,777,790	6,247,805	4,884,986	4,791,930	3,247,231	3,109,398	
Ohio.....	3,558,481	1,847,319	1,711,162	1,411,920	1,395,954	1,068,943	1,031,366	
Indiana.....	1,779,820	909,203	870,617	797,256	787,820	674,607	661,388	
Illinois.....	3,944,197	2,028,852	1,915,345	1,314,819	1,350,858	822,102	797,375	
Michigan.....	2,415,436	1,192,158	1,023,278	781,937	722,970	467,192	416,493	
Wisconsin.....	1,527,661	800,258	727,403	549,554	534,828	214,397	202,706	
West North Central.....	7,278,548	3,808,187	3,472,411	2,955,933	2,821,942	1,685,565	1,623,521	
Minnesota.....	1,380,834	738,332	642,502	465,001	441,809	174,581	157,617	
Iowa.....	1,438,882	737,829	690,853	609,085	591,995	397,210	381,037	
Missouri.....	2,038,814	1,038,472	1,000,342	877,138	866,175	699,238	677,197	
North Dakota.....	322,918	178,148	144,770	106,124	92,221	42,011	35,090	
South Dakota.....	344,846	188,882	155,964	138,766	118,829	72,230	59,982	
Nebraska.....	738,310	390,287	348,023	303,680	282,073	191,206	174,983	
Kansas.....	1,024,144	534,187	489,957	456,139	428,840	359,087	337,615	
South Atlantic.....	7,212,593	3,646,704	3,565,819	2,420,351	2,385,209	2,269,647	2,226,693	
Delaware.....	136,521	70,580	65,941	50,261	49,853	42,726	41,742	
Maryland.....	862,391	433,857	428,534	310,049	316,339	251,197	252,635	
District of Columbia.....	305,255	139,800	165,455	91,359	118,445	73,134	90,647	
Virginia.....	1,207,074	613,653	593,421	419,652	407,620	404,290	394,296	
West Virginia.....	752,344	403,572	348,772	335,192	310,449	317,118	292,693	
North Carolina.....	1,210,727	603,683	607,044	429,840	426,727	426,660	423,513	
South Carolina.....	779,991	389,199	390,792	201,683	195,172	197,542	191,279	
Georgia.....	1,421,606	711,760	709,846	419,440	411,733	409,711	402,543	
Florida.....	586,614	280,600	256,014	162,875	153,871	147,269	137,645	
East South Central.....	4,523,944	2,282,653	2,241,291	1,606,459	1,564,958	1,536,640	1,488,142	
Kentucky.....	1,289,496	657,883	631,613	567,894	548,143	526,442	500,910	
Tennessee.....	1,214,947	609,547	605,400	480,087	475,038	467,349	461,749	
Alabama.....	1,143,395	573,892	569,503	348,008	337,918	338,268	327,815	
Mississippi.....	876,106	441,331	434,775	210,470	203,859	204,581	197,668	
West South Central.....	5,243,779	2,756,430	2,487,349	1,964,472	1,802,351	1,802,048	1,621,833	
Arkansas.....	867,292	452,177	415,115	319,949	291,788	306,174	280,397	
Louisiana.....	924,184	460,669	454,515	265,526	257,263	233,307	220,012	
Oklahoma.....	1,021,588	550,172	471,416	474,735	410,010	440,096	380,973	
Texas.....	2,430,715	1,284,412	1,146,303	934,262	843,290	822,471	740,541	
Mountain.....	1,888,921	1,057,368	831,553	770,089	651,790	553,726	456,946	
Montana.....	320,562	184,699	135,863	125,276	101,079	79,834	61,595	
Idaho.....	234,076	132,959	101,117	106,890	86,928	76,381	61,768	
Wyoming.....	115,739	69,857	45,882	51,871	37,754	38,944	27,399	
Colorado.....	564,529	303,782	260,747	235,639	213,142	180,292	158,047	
New Mexico.....	185,186	102,522	82,664	80,082	69,142	72,260	62,363	
Arizona.....	187,929	109,361	78,568	61,327	47,329	47,402	35,439	
Utah.....	228,682	120,875	107,807	88,596	82,779	45,436	41,397	
Nevada.....	52,218	33,313	18,905	20,388	13,637	13,177	8,338	
Pacific.....	3,679,077	2,003,970	1,666,107	1,335,516	1,248,472	916,854	830,910	
Washington.....	857,079	482,137	374,942	322,456	279,632	220,779	185,765	
Oregon.....	494,968	270,953	224,015	205,722	185,001	153,332	136,123	
California.....	2,318,030	1,250,880	1,067,150	807,338	784,839	542,743	510,022	

Source: Bureau of the Census, Department of Commerce.

## SEX, AND MALES 18 TO 44 YEARS OF AGE: BY STATES, 1920

Persons 21 years of age and over—Continued								Males 18 to 44 years of age	Division and State
Native white—Con.		Foreign-born white		Negro		All other			
Foreign or mixed parentage		Male	Female	Male	Female	Male	Fe- male		
Male	Female								
5,708,885	5,898,599	6,928,452	5,570,268	2,792,006	2,730,489	168,964	81,620	22,401,211	U. S.
530,684	582,989	866,042	839,249	27,128	25,187	3,844	690	1,536,294	N. E.
34,960	34,775	49,355	44,974	492	384	391	239	148,430	Me.
25,335	26,801	42,432	39,617	229	159	95	13	86,923	N. H.
21,446	21,861	20,462	17,770	198	144	21	5	66,736	Vt.
303,018	336,662	491,107	497,806	15,550	14,862	2,440	301	807,838	Mass.
48,396	54,759	78,118	78,748	3,896	3,158	251	50	126,465	R. I.
97,529	108,131	184,568	160,334	7,263	6,480	646	82	299,902	Conn.
1,472,124	1,604,911	2,406,975	2,070,777	209,907	199,534	12,260	2,237	4,863,930	M. A.
803,385	887,821	1,318,883	1,209,614	69,259	73,285	8,838	1,950	2,313,807	N. Y.
216,450	234,007	360,902	314,320	37,511	38,160	1,369	116	697,019	N. J.
452,289	483,083	727,190	546,843	103,137	88,089	2,053	171	1,853,104	Pa.
1,637,755	1,682,622	1,687,728	1,290,847	195,381	160,980	9,695	4,088	4,760,165	E. N. C.
342,977	364,588	363,504	259,019	70,853	56,087	1,042	102	1,296,399	Ohio.
122,649	126,452	82,908	57,465	28,551	25,284	388	48	602,798	Ind.
522,217	552,983	613,797	504,131	67,846	60,604	2,890	252	1,449,872	Ill.
314,745	306,477	381,808	281,352	25,887	17,520	2,526	1,436	854,578	Mich.
335,167	332,122	245,711	188,880	2,144	1,465	2,849	2,230	556,518	Wis.
1,020,370	998,421	738,673	553,191	99,691	88,174	11,840	9,174	2,651,788	W. N. C.
290,420	284,192	266,856	195,726	3,838	2,828	2,637	2,139	526,532	Minn.
211,875	210,958	121,392	93,087	6,989	5,629	413	142	501,040	Iowa.
177,900	188,978	97,345	76,206	63,452	57,876	537	85	706,038	Mo.
64,113	57,131	70,043	51,004	207	129	1,774	1,416	133,575	N. Dak.
66,536	58,847	45,340	32,687	815	205	4,461	4,243	140,030	S. Dak.
112,474	107,090	79,821	61,078	5,878	4,059	1,408	813	279,150	Nebr.
97,052	91,225	57,876	43,333	19,562	17,448	610	336	365,403	Kans.
150,704	158,316	170,407	116,808	1,051,012	1,060,940	4,934	2,662	2,724,149	S. A.
7,535	8,111	10,614	7,631	9,657	8,456	48	1	48,236	Del.
58,852	63,804	50,363	43,261	73,086	68,905	359	29	309,676	Md.
18,225	22,798	14,042	12,334	33,822	39,626	577	50	102,670	D. C.
15,362	13,324	17,431	10,420	176,036	175,195	534	186	454,990	Va.
18,074	17,756	38,471	16,994	29,826	21,319	83	10	305,695	W. Va.
3,180	3,214	4,035	2,463	167,240	175,516	2,568	2,348	456,568	N. C.
4,141	3,893	3,850	2,091	183,474	193,456	192	73	306,292	S. C.
9,729	9,190	9,319	5,536	282,779	292,551	222	26	542,136	Ga.
15,606	16,226	22,282	16,088	95,092	85,916	351	139	197,886	Fla.
69,819	76,816	39,697	27,455	635,653	648,416	844	372	1,657,670	E. S. C.
41,452	47,233	16,827	12,661	73,091	70,790	71	19	469,119	Ky.
12,738	13,289	8,428	5,891	120,947	124,448	85	23	438,225	Tenn.
9,740	10,103	9,814	6,291	215,915	225,215	155	79	423,075	Ala.
5,889	6,191	4,628	2,702	225,700	227,963	533	251	327,251	Miss.
192,424	180,518	208,431	148,789	538,727	523,517	14,800	12,692	2,103,428	W. S. C.
13,775	11,481	8,166	5,000	128,939	118,295	123	32	330,492	Ark.
32,219	37,251	24,848	16,380	178,623	180,628	672	244	362,226	La.
34,639	29,037	22,817	13,291	40,110	36,221	12,510	11,894	414,772	Okla.
111,791	102,749	152,600	114,118	196,055	188,373	1,495	522	995,988	Tex.
216,943	195,444	241,321	152,697	16,072	7,809	29,906	19,267	765,704	Mont.
45,442	39,484	54,250	31,459	754	508	4,419	2,817	132,569	Idaho.
30,509	25,160	23,366	12,804	463	236	2,240	1,149	95,705	Wyo.
12,927	10,355	15,796	7,261	678	387	1,512	480	54,037	Colo.
55,347	55,095	62,089	42,928	4,237	3,869	1,817	808	206,979	N. Mex.
7,822	6,779	13,244	8,689	4,046	763	5,150	4,070	76,548	Ariz.
13,925	11,890	33,582	22,391	5,075	1,484	9,377	7,364	84,965	Utah.
43,160	41,382	28,791	23,463	652	452	2,836	1,113	92,645	Nev.
7,211	5,299	10,203	3,692	167	110	2,555	1,466	22,256	
418,662	418,562	569,178	370,445	18,435	15,932	80,841	30,258	1,338,103	Pac.
101,677	93,867	143,258	87,177	3,105	2,103	13,318	6,030	329,067	Wash.
52,390	49,878	58,580	36,227	937	683	5,714	2,104	179,038	Oreg.
264,595	274,817	367,340	247,041	14,393	13,146	61,809	22,124	829,998	Calif.

**No. 21.—MARITAL CONDITION OF PERSONS 15 YEARS OF AGE AND OVER:**  
**By Sex, Race, and Nativity, Continental United States**

NOTE.—The number divorced is considered to be understated

Class	Males 15 years and over				Females 15 years and over			
	Number		Per cent		Number		Per cent	
	1910	1920	1910	1920	1910	1920	1910	1920
<b>All classes</b> .....	32,425,805	36,920,683	100.0	100.0	30,047,325	35,177,515	100.0	100.0
Single.....	12,550,129	12,967,565	38.7	35.1	8,933,170	9,616,902	29.7	27.3
Married.....	18,092,600	21,849,266	55.8	59.2	17,684,687	21,318,933	58.9	60.6
Widowed.....	1,471,390	1,758,308	4.5	4.8	3,176,228	3,917,625	10.6	11.1
Divorced.....	156,162	235,284	0.5	0.6	185,068	273,304	0.6	0.8
Unknown.....	155,524	110,240	0.5	0.3	68,172	50,751	0.2	0.1
<b>White</b> .....	29,158,125	33,335,586	100.0	100.0	28,857,337	31,654,841	100.0	100.0
Single.....	11,360,282	11,782,665	39.0	35.3	8,091,249	8,772,732	30.1	27.7
Married.....	16,253,940	19,698,113	55.7	59.1	15,852,011	19,210,238	55.0	60.7
Widowed.....	1,274,383	1,549,164	4.4	4.6	2,705,990	3,399,662	10.1	10.7
Divorced.....	135,203	207,663	0.5	0.6	150,801	228,565	0.6	0.7
Unknown.....	134,312	97,981	0.5	0.3	57,286	43,644	0.2	0.1
<b>Native white, total</b> .....	22,018,232	26,083,047	100.0	100.0	21,411,081	25,740,856	100.0	100.0
Single.....	9,091,366	9,927,618	41.3	38.1	7,097,139	7,936,933	33.1	30.8
Married.....	11,821,805	14,795,171	53.7	56.7	12,228,008	15,086,735	57.1	58.6
Widowed.....	889,662	1,111,115	4.0	4.3	1,905,878	2,480,407	8.9	9.6
Divorced.....	112,144	175,713	0.5	0.7	130,259	200,909	0.6	0.8
Unknown.....	103,255	73,430	0.5	0.3	49,747	35,872	0.2	0.1
<b>Native white, native parentage</b> .....	16,233,095	18,092,107	100.0	100.0	15,533,900	18,529,748	100.0	100.0
Single.....	6,185,324	6,776,518	38.1	35.5	4,644,122	5,268,490	29.9	28.4
Married.....	9,144,099	11,244,289	56.3	58.9	9,219,385	11,195,865	59.4	60.4
Widowed.....	728,883	874,821	4.5	4.6	1,523,560	1,885,000	9.8	10.2
Divorced.....	87,456	134,789	0.5	0.7	100,053	152,743	0.6	0.8
Unknown.....	87,333	61,690	0.5	0.3	36,780	27,650	0.2	0.1
<b>Native white, foreign parentage</b> .....	4,059,778	4,792,911	100.0	100.0	4,092,573	4,906,547	100.0	100.0
Single.....	1,989,127	2,141,310	49.0	44.7	1,660,120	1,791,271	40.6	36.5
Married.....	1,926,075	2,445,291	47.4	51.0	2,128,165	2,648,054	52.0	54.0
Widowed.....	117,046	171,612	2.9	3.6	276,348	431,821	6.8	8.8
Divorced.....	16,471	26,197	0.4	0.5	18,987	29,535	0.5	0.6
Unknown.....	11,059	8,501	0.3	0.2	8,952	5,866	0.2	0.1
<b>Native white, mixed parentage</b> .....	1,725,359	2,198,029	100.0	100.0	1,794,559	2,304,561	100.0	100.0
Single.....	916,915	1,009,790	53.1	45.9	792,897	877,172	44.2	38.1
Married.....	751,631	1,105,591	43.6	50.3	880,458	1,242,816	49.1	53.9
Widowed.....	43,733	64,682	2.5	2.9	105,970	163,586	5.9	7.1
Divorced.....	8,217	14,727	0.5	0.7	11,219	18,651	0.6	0.8
Unknown.....	4,863	3,239	0.3	0.1	4,015	2,356	0.2	0.1
<b>Foreign-born white</b> .....	7,139,893	7,252,539	100.0	100.0	5,446,306	5,913,985	100.0	100.0
Single.....	2,268,916	1,855,047	31.8	25.6	994,110	835,799	18.3	14.1
Married.....	4,432,135	4,902,942	62.1	67.6	3,624,003	4,123,503	66.5	69.7
Widowed.....	384,726	438,049	5.4	6.0	800,112	919,255	14.7	15.5
Divorced.....	23,059	31,950	0.3	0.4	20,542	27,656	0.4	0.5
Unknown.....	31,057	24,551	0.4	0.3	7,539	7,772	0.1	0.1
<b>Negro</b> .....	3,059,812	3,393,211	100.0	100.0	3,103,344	3,423,100	100.0	100.0
Single.....	1,083,472	1,104,872	35.4	32.6	823,996	825,268	26.6	24.1
Married.....	1,749,228	2,050,407	57.2	60.4	1,775,949	2,039,181	57.2	59.6
Widowed.....	189,970	200,734	6.2	5.9	459,831	507,961	14.8	14.8
Divorced.....	20,146	26,639	0.7	0.8	33,286	43,871	1.1	1.3
Unknown.....	16,496	10,504	0.5	0.3	10,282	6,829	0.3	0.2
<b>Indian</b> .....	80,383	76,321	100.0	100.0	76,982	70,431	100.0	100.0
Single.....	27,391	26,450	34.1	34.7	16,324	16,238	21.2	23.1
Married.....	46,154	43,095	57.4	56.5	49,095	43,923	63.8	62.4
Widowed.....	5,319	5,711	6.6	7.5	10,071	9,217	13.1	13.1
Divorced.....	679	680	0.8	0.9	959	826	1.2	1.2
Unknown.....	840	385	1.0	0.5	533	227	0.7	0.3
<b>Chinese, Japanese, and all other</b> .....	127,885	115,545	100.0	100.0	9,662	29,143	100.0	100.0
Single.....	78,984	53,573	61.7	46.4	1,601	2,674	16.6	9.2
Married.....	43,278	57,651	33.8	49.9	7,632	25,591	79.0	87.8
Widowed.....	1,713	2,699	1.3	2.3	336	785	3.5	2.7
Divorced.....	134	252	0.1	0.2	22	42	0.2	0.1
Unknown.....	3,876	1,370	3.0	1.2	71	51	0.7	0.2

Source Bureau of the Census, Department of Commerce

**No. 22.—MARITAL CONDITION OF PERSONS 15 YEARS OF AGE AND OVER,  
BY MAJOR CLASSES AND SEX: BY GEOGRAPHIC DIVISIONS, 1920**

NOTE.—The number divorced is considered to be understated. For marital condition of total population of each division see Table 24

Division and marital condition	Native white				Foreign-born white		Negro	
	Native parentage		Foreign or mixed parentage		Number	Per cent	Number	Per cent
	Number	Per cent	Number	Per cent				
UNITED STATES (cont'l)								
Males	19,092,107	100 0	6,990,940	100 0	7,252,539	100 0	3,393,211	100 0
Single	6,776,518	35 5	3,151,100	45 1	1,855,047	25 6	1,104,877	32 6
Married	11,244,289	58 9	3,550,882	50 8	4,902,942	67 6	2,050,407	60 4
Widowed	874,821	4 6	238,294	3 4	438,049	6 0	200,734	5 9
Divorced	134,789	0 7	40,924	0 6	31,950	0 4	26,689	0 8
Unknown	61,690	0 3	11,740	0 2	24,551	0 3	10,501	0 3
Females	18,529,748	100 0	7,211,108	100 0	5,913,985	100 0	3,423,100	100 0
Single	5,268,490	28 4	2,668,443	37 0	835,799	14 1	825,258	24 1
Married	11,195,865	60 4	3,890,870	54 0	4,123,503	69 7	2,039,181	59 6
Widowed	1,885,000	10 2	595,407	8 3	919,255	15 5	507,961	14 8
Divorced	152,743	0 8	48,166	0 7	27,656	0 5	43,871	1 3
Unknown	27,650	0 1	8,222	0 1	7,772	0 1	6,829	0 2
NEW ENGLAND								
Males	972,911	100 0	696,551	100 0	909,765	100 0	30,498	100 0
Single	331,847	34 1	374,281	53 7	216,041	23 7	11,870	38 9
Married	559,103	58 5	297,366	42 7	636,924	70 0	16,732	54 9
Widowed	60,870	6 3	21,697	3 1	53,046	5 8	1,591	5 2
Divorced	8,897	0 9	2,691	0 4	2,596	0 3	215	0 7
Unknown	2,194	0 2	816	0 1	1,153	0 1	90	0 3
Females	1,006,255	100 0	756,451	100 0	888,754	100 0	28,853	100 0
Single	320,837	31 9	371,256	49 1	160,504	18 1	7,833	27 1
Married	534,679	53 1	331,003	43 8	603,268	67 9	15,954	55 3
Widowed	139,246	13 8	50,003	6 6	120,992	13 6	4,732	16 4
Divorced	10,339	1 0	3,548	0 5	3,258	0 4	287	1 0
Unknown	1,154	0 1	641	0 1	732	0 1	47	0 2
MIDDLE ATLANTIC								
Males	3,210,550	100 0	1,873,841	100 0	2,530,225	100 0	235,674	100 0
Single	1,175,331	36 6	914,692	48 8	605,712	23 9	85,397	36 2
Married	1,852,452	57 7	884,508	47 2	1,780,343	70 4	136,401	57 9
Widowed	159,676	5 0	66,587	3 6	130,220	5 1	11,815	5 0
Divorced	13,922	0 4	4,680	0 2	4,216	0 2	887	0 4
Unknown	9,169	0 3	3,374	0 2	9,734	0 4	1,174	0 5
Females	3,292,690	100 0	2,023,534	100 0	2,208,635	100 0	229,987	100 0
Single	1,057,617	32 1	844,769	41 7	348,395	15 8	59,219	25 7
Married	1,852,408	56 3	987,130	48 8	1,541,876	69 8	135,197	58 8
Widowed	361,294	11 0	182,908	9 0	310,281	14 0	34,007	14 8
Divorced	17,108	0 5	6,134	0 3	4,919	0 2	1,190	0 5
Unknown	4,263	0 1	2,593	0 1	3,064	0 1	374	0 2
EAST NORTH CENTRAL								
Males	3,908,456	100 0	1,953,028	100 0	1,753,645	100 0	218,760	100 0
Single	1,396,227	35 7	806,506	41 3	419,937	23 9	76,969	35 2
Married	2,290,648	58 6	1,064,703	54 5	1,207,092	68 8	125,254	57 3
Widowed	175,973	4 5	65,850	3 4	112,897	6 4	13,075	6 0
Divorced	36,429	0 9	13,030	0 7	9,551	0 5	2,887	1 3
Unknown	9,179	0 2	2,939	0 2	4,168	0 2	575	0 3
Females	3,770,085	100 0	2,002,374	100 0	1,859,187	100 0	185,274	100 0
Single	1,068,181	28 3	665,130	33 2	148,405	10 9	33,781	18 2
Married	2,292,058	60 8	1,156,234	57 7	974,174	71 7	119,604	64 6
Widowed	365,386	9 7	163,530	8 2	226,814	16 7	28,657	15 5
Divorced	38,786	1 0	15,289	0 8	7,998	0 6	2,931	1 6
Unknown	5,674	0 2	2,191	0 1	1,776	0 1	301	0 2
WEST NORTH CENTRAL								
Males	2,367,289	100 0	1,225,560	100 0	761,080	100 0	112,538	100 0
Single	874,598	36 9	535,668	43 7	178,443	23 4	38,637	34 3
Married	1,364,601	57 6	646,061	52 7	514,637	67 6	63,551	56 5
Widowed	100,946	4 3	34,764	2 8	61,796	8 1	8,169	7 3
Divorced	19,004	0 8	6,412	0 5	4,242	0 6	1,752	1 6
Unknown	8,140	0 3	2,655	0 2	1,962	0 3	429	0 4
Females	2,263,964	100 0	1,200,390	100 0	575,888	100 0	102,372	100 0
Single	656,392	29 0	414,657	34 4	56,197	9 8	20,548	20 1
Married	1,379,396	60 9	702,907	58 3	404,122	70 2	62,061	60 6
Widowed	202,817	9 0	79,244	6 6	110,643	19 2	17,465	17 1
Divorced	21,270	0 9	7,790	0 6	3,466	0 6	2,062	2 0
Unknown	4,089	0 2	1,692	0 1	940	0 2	236	0 2

**No. 22.—MARITAL CONDITION OF PERSONS 15 YEARS OF AGE AND OVER, BY MAJOR CLASSES AND SEX: BY GEOGRAPHIC DIVISIONS, 1920—Continued**

Division and marital condition	Native white				Foreign-born white		Negro	
	Native parentage		Foreign or mixed parentage		Number	Per cent	Number	Per cent
	Number	Per cent	Number	Per cent				
SOUTH ATLANTIC								
Males	2,783,077	100 0	179,897	100 0	179,095	100 0	1,811,264	100 0
Single	972,859	35 0	74,986	41 7	54,376	30 4	433,651	33 1
Married	1,678,260	60 3	95,611	53 2	113,468	63 4	795,982	60 7
Widowed	116,616	4 2	7,948	4 4	10,063	5 6	72,281	5 5
Divorced	9,290	0 3	943	0 5	594	0 3	5,415	0 4
Unknown	6,052	0 2	209	0 1	594	0 3	3,935	0 3
Females	2,745,420	100 0	185,752	100 0	124,880	100 0	1,861,103	100 0
Single	783,803	28 5	63,953	34 4	17,911	14 3	355,986	26 2
Married	1,669,809	60 8	98,424	53 0	86,322	69 1	797,273	58 6
Widowed	275,545	10 0	22,188	11 9	20,054	16 1	195,668	14 4
Divorced	12,149	0 4	1,055	0 6	422	0 3	9,465	0 7
Unknown	4,123	0 2	132	0 1	151	0 1	2,711	0 2
EAST SOUTH CENTRAL								
Males	1,896,799	100 0	77,824	100 0	41,082	100 0	782,663	100 0
Single	621,430	32 8	26,448	34 0	9,531	23 2	236,391	30 2
Married	1,180,367	62 2	46,791	60 1	27,538	67 1	486,794	62 2
Widowed	84,210	4 4	3,956	5 1	3,694	9 0	50,380	6 4
Divorced	7,611	0 4	541	0 7	213	0 5	6,887	0 9
Unknown	3,181	0 2	88	0 1	86	0 2	2,211	0 3
Females	1,856,986	100 0	85,038	100 0	28,880	100 0	821,483	100 0
Single	484,438	26 1	25,804	30 3	3,654	12 7	192,268	23 4
Married	1,174,207	63 2	46,344	54 5	17,907	62 0	486,417	59 2
Widowed	187,356	10 1	12,180	14 3	7,119	24 7	127,985	15 6
Divorced	10,955	0 6	646	0 8	133	0 5	13,176	1 6
Unknown	2,040	0 1	62	0 1	47	0 2	1,637	0 2
WEST SOUTH CENTRAL								
Males	2,227,731	100 0	233,688	100 0	231,050	100 0	664,084	100 0
Single	771,816	34 6	92,425	39 6	70,114	30 3	204,818	30 8
Married	1,336,835	60 0	129,959	55 6	141,822	61 4	408,050	61 4
Widowed	97,459	4 4	9,335	4 0	16,643	7 2	41,453	6 2
Divorced	12,251	0 5	1,522	0 7	1,043	0 5	7,904	1 2
Unknown	9,340	0 4	447	0 2	1,428	0 6	1,859	0 3
Females	2,054,846	100 0	221,627	100 0	170,598	100 0	667,340	100 0
Single	515,544	25 1	65,938	29 8	29,519	17 3	151,058	22 6
Married	1,331,436	64 8	130,912	59 1	109,951	64 5	406,214	60 9
Widowed	189,767	9 2	22,805	10 3	30,011	17 6	94,624	14 2
Divorced	14,517	0 7	1,700	0 8	826	0 5	13,980	2 1
Unknown	3,582	0 2	272	0 1	291	0 2	1,464	0 2
MOUNTAIN								
Males	663,674	100 0	258,172	100 0	234,224	100 0	17,457	100 0
Single	249,428	37 6	106,906	41 4	88,352	34 8	9,724	55 7
Married	370,161	55 8	139,250	53 9	147,673	58 1	6,611	37 9
Widowed	29,378	4 4	8,821	3 4	14,852	5 8	756	4 3
Divorced	7,871	1 2	2,824	1 1	2,231	0 9	277	1 6
Unknown	6,836	1 0	371	0 1	1,116	0 4	89	0 5
Females	564,785	100 0	236,849	100 0	185,408	100 0	8,799	100 0
Single	143,474	25 4	65,753	27 8	18,424	11 1	1,383	15 7
Married	364,567	64 5	150,620	63 6	117,521	71 1	5,645	64 2
Widowed	48,411	8 6	17,526	7 4	27,816	16 8	1,513	17 2
Divorced	6,902	1 2	2,748	1 2	1,417	0 9	236	2 7
Unknown	1,431	0 3	202	0 1	228	0 1	22	0 3
PACIFIC								
Males	1,061,620	100 0	492,279	100 0	592,393	100 0	20,273	100 0
Single	382,982	36 1	219,188	44 5	212,541	35 9	7,420	36 6
Married	601,862	56 7	246,633	50 1	333,445	56 3	11,032	54 4
Widowed	49,663	4 7	17,336	3 5	34,838	5 9	1,214	6 0
Divorced	19,514	1 8	8,281	1 7	7,264	1 2	465	2 3
Unknown	7,599	0 7	841	0 2	4,305	0 7	142	0 7
Females	972,707	100 0	493,195	100 0	392,437	100 0	17,889	100 0
Single	238,204	24 5	151,183	30 7	52,790	13 5	3,182	17 8
Married	597,314	61 4	287,296	58 3	268,362	68 4	10,816	60 5
Widowed	115,178	11 8	45,023	9 1	65,525	16 7	3,810	18 5
Divorced	20,717	2 1	9,256	1 9	5,217	1 3	544	3 0
Unknown	1,294	0 1	437	0 1	543	0 1	37	0 2

Source: Bureau of the Census, Department of Commerce.



**No. 23.—MARITAL CONDITION OF WHITE AND NEGRO PERSONS 15 YEARS OF AGE AND OVER: FOR EACH GEOGRAPHIC DIVISION AND FOR EACH STATE HAVING A NEGRO POPULATION OF OVER 5 PER CENT OF THE TOTAL, 1920**

NOTE.—The small number unknown is not shown separately but included in the total. The number divorced is considered to be understated. For marital condition of white and negro population in the United States as a whole, see Table 21.

Division and State	Male					Female				
	Total	Single	Married	Widowed	Divorced	Total	Single	Married	Widowed	Divorced
<b>WHITE</b>										
New England.....	2,579,527	922,169	1,503,393	135,618	14,184	2,651,460	852,597	1,468,950	310,241	17,145
Middle Atlantic.....	7,614,616	2,695,735	4,517,303	358,483	22,818	7,824,759	2,250,781	4,381,414	854,483	28,161
East North Central.....	7,615,129	2,622,670	4,562,443	354,720	59,010	7,181,626	1,881,716	4,422,466	755,730	62,073
West North Central.....	4,353,929	1,588,709	2,525,299	197,506	29,658	4,045,622	1,127,246	2,498,425	392,704	32,528
Missouri.....	1,144,084	381,364	693,383	57,400	8,914	1,119,217	294,063	685,054	127,769	10,460
South Atlantic.....	3,141,869	1,102,221	1,897,339	134,627	10,827	3,056,032	865,667	1,854,546	317,787	13,626
Delaware.....	70,203	23,460	42,683	3,495	266	66,875	17,204	41,470	7,716	317
Maryland.....	425,569	153,034	245,705	21,250	2,014	423,286	125,428	245,300	49,946	2,226
Dist. of Columbia.....	119,472	47,279	65,634	5,222	672	141,971	57,067	64,878	18,707	1,049
Virginia.....	534,210	197,003	312,353	22,109	1,814	510,912	149,699	306,858	51,631	2,265
West Virginia.....	452,863	159,161	272,142	15,116	2,120	405,240	104,669	263,150	34,205	2,362
North Carolina.....	538,513	183,575	331,669	21,072	334	536,462	155,897	323,200	48,882	1,302
South Carolina.....	254,087	91,318	151,810	10,343	242	248,451	71,126	149,402	25,199	277
Georgia.....	528,044	176,539	327,634	21,695	1,576	520,175	137,769	323,144	56,451	2,358
Florida.....	218,908	70,852	134,809	11,325	1,289	204,060	46,809	132,144	24,050	1,360
East South Central.....	2,015,685	657,409	1,254,696	91,860	8,365	1,972,892	513,896	1,238,458	206,655	11,734
Kentucky.....	709,888	231,735	438,622	34,623	3,820	686,568	175,976	432,702	72,420	4,770
Tennessee.....	597,593	190,278	376,005	28,100	2,476	594,613	155,111	371,420	33,684	3,937
Alabama.....	442,513	144,772	277,585	18,009	1,438	432,489	111,919	273,709	44,223	2,059
Mississippi.....	265,691	90,624	162,484	11,128	631	259,122	70,890	160,627	26,328	968
West South Central.....	2,692,469	934,355	1,608,616	123,467	14,816	2,447,071	611,001	1,572,299	242,583	17,043
Arkansas.....	403,252	127,753	252,047	20,520	2,136	374,035	84,939	248,179	38,018	2,410
Louisiana.....	354,944	120,278	204,865	15,130	1,207	341,713	99,866	201,259	38,238	1,546
Oklahoma.....	606,270	197,984	373,295	27,734	4,676	532,663	118,745	364,250	43,983	4,737
Texas.....	1,328,003	476,675	778,409	60,083	6,897	1,198,660	307,451	758,611	122,344	8,350
Mountain.....	1,176,070	444,686	657,084	53,051	12,926	967,040	227,651	632,708	93,753	11,067
Pacific.....	2,146,292	814,711	1,181,940	101,837	35,069	1,858,339	442,177	1,152,972	225,726	35,190
<b>NEGRO</b>										
New England.....	30,498	11,870	16,732	1,591	215	28,853	7,833	15,954	4,732	287
Middle Atlantic.....	235,674	85,397	139,401	11,815	887	229,887	59,219	135,197	34,007	1,190
East North Central.....	218,760	76,969	125,254	13,075	2,887	185,274	33,751	119,604	29,657	2,831
West North Central.....	112,538	38,637	63,551	8,169	1,752	102,372	20,548	62,061	17,465	2,066
Missouri.....	71,577	24,609	40,331	5,375	978	67,090	13,966	39,772	11,991	1,172
South Atlantic.....	1,311,264	433,651	795,982	72,281	5,415	1,361,103	355,986	797,273	195,668	9,465
Delaware.....	11,359	4,318	6,157	763	41	10,220	2,758	5,998	1,378	41
Maryland.....	86,565	31,320	49,116	5,511	426	83,250	21,767	48,723	12,138	474
Dist. of Columbia.....	38,916	13,354	22,801	2,387	208	46,434	13,244	23,686	9,051	331
Virginia.....	217,056	77,781	125,347	12,252	1,124	219,836	61,380	125,550	30,828	1,632
West Virginia.....	34,727	13,780	18,920	1,566	313	26,313	5,500	17,652	2,789	273
North Carolina.....	214,825	73,172	130,114	10,357	482	229,671	68,505	130,537	28,963	1,009
South Carolina.....	237,928	77,126	148,780	11,062	355	257,502	72,308	149,187	34,653	938
Georgia.....	356,516	106,681	226,716	20,604	1,665	379,907	88,081	228,351	59,796	3,668
Florida.....	113,372	36,169	68,031	7,784	801	107,961	22,443	67,589	16,492	1,199
East South Central.....	752,063	236,391	486,794	50,330	8,887	821,483	192,268	486,417	127,985	13,176
Kentucky.....	85,538	28,509	48,898	6,664	1,318	84,104	19,073	48,345	14,955	1,621
Tennessee.....	147,594	45,423	89,625	10,714	1,495	154,408	35,418	90,448	25,599	2,739
Alabama.....	267,539	81,556	166,438	16,398	2,043	288,197	70,327	166,443	40,129	4,690
Mississippi.....	281,992	80,903	181,783	16,604	2,031	294,774	67,450	181,181	41,902	4,226
West South Central.....	664,084	204,818	408,050	41,453	7,904	667,340	151,058	406,214	94,624	13,980
Arkansas.....	152,569	43,422	96,929	10,069	1,318	151,290	31,135	96,121	20,931	2,958
Louisiana.....	219,800	68,943	130,856	11,991	1,311	229,299	55,308	137,442	33,003	2,869
Oklahoma.....	49,426	15,383	29,557	3,561	712	46,426	10,246	29,013	6,096	945
Texas.....	242,289	77,065	144,708	15,832	4,063	240,224	54,369	143,638	34,594	7,208
Mountain.....	17,457	6,794	8,611	756	277	8,799	1,393	5,645	1,513	236
Pacific.....	20,273	7,420	11,032	1,214	465	17,889	3,182	10,816	3,310	544

## No. 24.—MARITAL CONDITION OF PERSONS

NOTE.—The number divorced

Division and State	Males 15 years of age and over								
	Number						Per cent of total		
	Total	Single	Married	Widowed	Di- vorced	Un- known	Single	Mar- ried	Wid- owed
<b>Continental United States.</b>	<b>36,920,868</b>	<b>12,987,565</b>	<b>21,848,266</b>	<b>1,758,308</b>	<b>235,284</b>	<b>110,240</b>	<b>35.1</b>	<b>59.2</b>	<b>4.8</b>
<b>New England.</b>	<b>2,614,119</b>	<b>935,919</b>	<b>1,522,214</b>	<b>137,307</b>	<b>14,408</b>	<b>4,271</b>	<b>35.8</b>	<b>58.2</b>	<b>5.8</b>
Maine.....	279,478	92,085	166,171	18,123	2,628	471	32.9	59.5	6.5
New Hampshire.....	161,931	54,688	94,791	10,324	1,762	366	33.8	58.5	6.4
Vermont.....	127,905	41,894	76,310	8,372	1,171	158	32.8	59.7	6.5
Massachusetts.....	1,347,788	496,697	775,687	67,582	5,825	1,997	36.9	57.6	5.0
Rhode Island.....	210,543	77,269	121,208	10,711	1,226	129	36.7	57.6	5.1
Connecticut.....	486,474	173,286	288,047	22,195	1,796	-1,150	35.6	59.2	4.6
<b>Middle Atlantic.</b>	<b>7,863,502</b>	<b>2,788,863</b>	<b>4,658,707</b>	<b>368,584</b>	<b>23,787</b>	<b>23,611</b>	<b>35.5</b>	<b>59.2</b>	<b>4.7</b>
New York.....	3,732,828	1,350,088	2,183,536	173,113	10,166	15,925	36.2	58.5	4.6
New Jersey.....	1,110,387	382,481	672,749	50,577	2,598	1,987	34.4	60.6	4.6
Pennsylvania.....	3,020,287	1,056,294	1,802,422	144,894	10,798	5,699	35.0	59.7	4.8
<b>East North Central.</b>	<b>7,844,734</b>	<b>2,704,777</b>	<b>4,692,684</b>	<b>388,387</b>	<b>61,984</b>	<b>16,932</b>	<b>34.5</b>	<b>59.8</b>	<b>4.7</b>
Ohio.....	2,125,426	712,996	1,290,796	101,596	17,225	2,813	33.5	60.7	4.8
Indiana.....	1,059,899	327,582	668,577	55,549	10,539	2,852	30.9	62.6	5.2
Illinois.....	2,347,493	830,251	1,387,092	107,204	16,887	6,359	35.4	59.1	4.6
Michigan.....	1,371,116	474,065	820,071	62,418	12,558	2,204	34.6	59.8	4.6
Wisconsin.....	940,800	359,883	531,148	41,590	5,475	2,704	38.3	56.5	4.4
<b>West North Central.</b>	<b>4,480,690</b>	<b>1,632,528</b>	<b>2,596,866</b>	<b>206,487</b>	<b>31,535</b>	<b>13,294</b>	<b>36.4</b>	<b>58.0</b>	<b>4.6</b>
Minnesota.....	868,738	365,880	460,829	35,687	4,134	2,208	42.1	53.0	4.1
Iowa.....	865,407	303,626	512,060	40,763	6,944	2,014	35.1	59.2	4.7
Missouri.....	1,216,243	406,275	733,960	62,793	9,895	3,320	33.4	60.3	5.2
North Dakota.....	214,001	87,934	116,254	7,765	815	1,233	41.1	54.3	3.6
South Dakota.....	224,873	89,284	123,995	9,000	1,272	1,322	39.7	55.1	4.0
Nebraska.....	461,298	169,428	267,199	19,715	3,231	1,725	36.7	57.9	4.3
Kansas.....	630,130	210,101	382,569	30,744	5,244	1,472	33.3	60.7	4.9
<b>South Atlantic.</b>	<b>4,459,049</b>	<b>1,538,338</b>	<b>2,686,520</b>	<b>207,103</b>	<b>16,262</b>	<b>10,826</b>	<b>34.5</b>	<b>60.2</b>	<b>4.6</b>
Delaware.....	81,611	27,815	48,850	4,264	307	375	34.1	59.9	5.2
Maryland.....	512,513	184,547	297,995	26,771	2,440	760	36.0	58.1	5.2
District of Columbia.....	159,013	60,976	88,698	7,616	884	839	38.3	55.8	4.8
Virginia.....	751,890	275,096	437,986	34,381	2,940	1,487	36.6	58.3	4.6
West Virginia.....	487,684	172,948	291,096	19,674	2,434	1,532	35.5	59.7	4.0
North Carolina.....	756,631	257,881	463,809	31,539	1,322	2,080	34.1	61.3	4.2
South Carolina.....	492,228	168,536	300,701	21,413	597	981	34.2	61.1	4.4
Georgia.....	884,801	288,338	554,356	42,314	3,242	1,551	32.0	62.7	4.8
Florida.....	332,678	107,201	203,029	19,131	2,096	1,221	32.2	61.0	4.8
<b>East South Central.</b>	<b>2,799,332</b>	<b>894,179</b>	<b>1,742,015</b>	<b>142,301</b>	<b>15,260</b>	<b>5,577</b>	<b>31.9</b>	<b>62.2</b>	<b>5.1</b>
Kentucky.....	795,502	280,277	487,561	41,289	5,138	1,237	32.7	61.3	5.2
Tennessee.....	745,280	235,742	465,672	38,823	3,971	1,072	31.6	62.5	5.2
Alabama.....	710,229	226,392	444,168	34,420	3,486	1,763	31.9	62.5	4.8
Mississippi.....	548,321	171,768	344,614	27,769	2,665	1,505	31.3	62.8	5.1
<b>West South Central.</b>	<b>3,375,273</b>	<b>1,145,995</b>	<b>2,027,272</b>	<b>168,000</b>	<b>22,863</b>	<b>13,143</b>	<b>34.0</b>	<b>60.1</b>	<b>4.9</b>
Arkansas.....	555,957	171,241	349,040	30,594	3,954	1,128	30.8	62.8	5.5
Louisiana.....	575,500	201,248	342,062	27,170	2,519	2,501	35.0	59.4	4.7
Oklahoma.....	671,835	219,012	412,202	32,252	5,423	2,946	32.6	61.4	4.8
Texas.....	1,571,981	554,494	923,968	75,984	10,967	6,568	35.3	58.8	4.8
<b>Mountain.</b>	<b>1,228,847</b>	<b>487,345</b>	<b>683,184</b>	<b>56,174</b>	<b>13,432</b>	<b>8,732</b>	<b>38.0</b>	<b>55.6</b>	<b>4.6</b>
Montana.....	209,491	84,007	113,159	8,590	2,324	1,411	40.1	54.0	4.1
Idaho.....	156,167	59,795	87,969	6,409	1,667	327	38.3	56.3	4.1
Wyoming.....	79,866	33,171	41,408	3,180	966	641	41.8	52.2	4.0
Colorado.....	350,813	123,473	200,800	17,592	4,378	4,570	35.2	57.2	5.0
New Mexico.....	123,167	45,425	68,973	7,583	944	242	36.9	56.0	6.2
Arizona.....	127,117	51,529	67,735	6,182	1,166	705	40.4	53.3	4.9
Utah.....	146,262	53,294	86,897	5,078	1,246	247	36.4	59.1	3.5
Nevada.....	36,464	16,851	16,723	1,560	741	589	46.2	45.9	4.3
<b>Pacific.</b>	<b>2,255,117</b>	<b>859,621</b>	<b>1,239,824</b>	<b>106,015</b>	<b>35,803</b>	<b>13,854</b>	<b>38.1</b>	<b>55.0</b>	<b>4.7</b>
Washington.....	546,019	212,021	298,950	23,915	8,602	2,531	38.8	54.8	4.4
Oregon.....	308,126	112,181	175,423	14,474	5,633	1,415	36.4	56.9	4.7
California.....	1,400,972	535,419	765,451	67,626	21,568	10,908	38.2	54.6	4.8

Source: Bureau of the Census, Department of Commerce.

## 15 YEARS OF AGE AND OVER: BY STATES, 1920

\*s considered to be understated

Females 15 years of age and over										Division and State
Number						Per cent of total				
Total	Single	Married	Widowed	Divorced	Un- known	Single	Mar- ried	Wid- owed		
35, 177, 515	9, 616, 902	21, 318, 933	3, 917, 625	273, 304	50, 751	27. 3	90. 6	11. 1	U. S.	
2, 681, 138	860, 653	1, 485, 377	315, 093	17, 441	2, 574	32. 1	55. 4	11. 8	N. E.	
271, 764	72, 159	162, 623	34, 017	2, 685	280	26. 6	59. 8	12. 5	Me.	
161, 208	46, 292	92, 353	20, 431	1, 845	287	28. 7	57. 3	12. 7	N. H.	
123, 982	32, 397	74, 505	15, 989	1, 014	77	26. 1	60. 1	12. 9	Vt.	
1, 425, 443	490, 170	758, 897	167, 253	8, 000	1, 123	34. 4	53. 2	11. 7	Mass.	
219, 409	74, 098	118, 772	24, 577	1, 834	128	33. 8	54. 1	11. 2	R. I.	
479, 332	145, 537	278, 227	52, 826	2, 063	679	30. 4	58. 0	11. 0	Conn.	
7, 757, 457	2, 310, 805	4, 518, 248	888, 739	29, 367	10, 298	29. 8	53. 2	11. 5	M. A.	
3, 767, 540	1, 164, 525	2, 134, 604	448, 670	13, 562	6, 179	30. 9	56. 7	11. 9	N. Y.	
1, 092, 623	311, 293	653, 587	123, 076	3, 297	1, 370	28. 5	59. 8	11. 3	N. J.	
2, 897, 294	834, 987	1, 730, 057	316, 993	12, 508	2, 749	28. 8	59. 7	10. 9	Pa.	
7, 321, 833	1, 916, 579	4, 545, 175	785, 038	65, 080	9, 951	26. 2	62. 1	10. 7	E. N. C.	
1, 990, 701	507, 550	1, 241, 451	221, 755	15, 466	1, 479	25. 5	62. 4	11. 1	Ohio	
1, 021, 915	244, 659	650, 187	114, 244	10, 723	2, 102	23. 9	63. 6	11. 2	Ill.	
2, 242, 120	617, 873	1, 353, 118	247, 985	19, 275	3, 869	27. 6	60. 3	11. 1	Mich.	
1, 198, 037	285, 297	782, 648	118, 412	10, 768	912	23. 8	65. 3	9. 9	Wis.	
869, 060	261, 200	517, 771	82, 642	5, 858	1, 589	30. 1	59. 6	9. 5		
4, 159, 479	1, 150, 373	2, 555, 896	411, 472	34, 727	7, 011	27. 7	61. 4	9. 9	W. N. C.	
774, 433	248, 592	450, 785	68, 945	4, 843	1, 268	32. 1	53. 2	8. 9	Minn.	
819, 947	224, 706	505, 294	81, 118	7, 510	1, 319	27. 4	61. 6	9. 9	Iowa.	
1, 186, 407	308, 051	724, 886	139, 774	11, 639	2, 057	26. 0	61. 1	11. 8	Mo.	
181, 450	54, 685	113, 843	11, 618	735	569	30. 1	62. 7	6. 4	N. Dak.	
190, 812	53, 858	121, 408	13, 862	1, 128	556	28. 2	63. 6	7. 3	S. Dak.	
419, 146	113, 867	263, 890	37, 298	3, 368	723	27. 2	63. 0	8. 9	Nebr.	
587, 284	146, 614	375, 790	58, 857	5, 504	519	25. 0	64. 0	10. 0	Kans.	
4, 420, 837	1, 222, 561	2, 654, 236	513, 797	23, 110	7, 133	27. 7	60. 0	11. 6	S. A.	
77, 105	19, 962	47, 469	9, 094	358	222	25. 9	61. 6	11. 8	Del.	
506, 569	147, 204	294, 043	62, 087	2, 700	535	29. 1	58. 0	12. 3	Md.	
188, 466	70, 330	88, 602	27, 761	1, 381	392	37. 3	47. 0	14. 7	D. C.	
730, 985	211, 140	432, 557	82, 483	3, 898	907	28. 9	59. 2	11. 3	Va.	
431, 564	110, 169	280, 811	36, 995	2, 635	954	25. 5	65. 1	8. 6	W. Va.	
769, 185	225, 149	460, 742	79, 118	2, 325	1, 851	29. 3	59. 9	10. 3	N. C.	
504, 048	143, 467	298, 648	59, 865	1, 325	753	28. 5	59. 2	11. 9	S. C.	
900, 117	225, 856	551, 522	115, 829	5, 926	984	25. 1	61. 3	12. 9	Ga.	
312, 798	69, 294	199, 842	40, 565	2, 562	535	22. 2	63. 9	13. 0	Fla.	
2, 794, 845	706, 269	1, 725, 179	334, 697	24, 914	3, 786	25. 3	61. 7	12. 0	E. S. C.	
770, 695	195, 055	481, 060	87, 378	6, 392	810	25. 3	62. 4	11. 3	Ky.	
749, 045	190, 536	461, 833	89, 285	6, 676	665	25. 4	61. 7	11. 9	Tenn.	
720, 780	182, 268	440, 207	90, 369	6, 649	1, 287	25. 3	61. 1	12. 5	Ala.	
554, 325	138, 410	342, 029	67, 665	5, 197	1, 024	25. 0	61. 7	12. 2	Miss.	
3, 131, 029	768, 117	1, 968, 774	339, 238	31, 236	5, 664	24. 5	63. 5	10. 8	W. S. C.	
525, 477	116, 084	344, 325	58, 954	5, 370	744	22. 1	65. 5	11. 2	Ark.	
571, 339	155, 276	338, 897	71, 278	4, 416	1, 472	27. 2	59. 3	12. 5	La.	
594, 679	132, 818	402, 863	51, 984	5, 886	1, 128	22. 3	67. 7	8. 7	Okl.	
1, 439, 534	361, 939	902, 689	157, 022	15, 564	2, 320	25. 1	62. 7	10. 9	Tex.	
1, 000, 086	233, 864	654, 476	98, 277	11, 510	1, 959	23. 4	65. 4	9. 8	Mt.	
160, 625	37, 036	108, 119	13, 388	1, 821	261	23. 1	67. 3	8. 3	Mont.	
123, 287	28, 124	84, 554	9, 391	1, 146	72	22. 8	68. 6	7. 6	Idaho.	
54, 169	11, 120	38, 172	4, 089	660	128	20. 5	70. 5	7. 5	Wyo.	
307, 458	73, 098	195, 193	34, 186	4, 058	923	23. 8	63. 5	11. 1	Colo.	
103, 503	24, 993	66, 577	10, 832	942	159	24. 1	64. 3	10. 5	N. Mex.	
95, 671	20, 170	63, 685	10, 808	852	156	21. 1	66. 6	11. 3	Ariz.	
133, 642	35, 127	83, 713	13, 168	1, 531	103	26. 3	62. 6	9. 9	Utah.	
21, 731	4, 196	14, 463	2, 415	500	157	19. 3	66. 6	11. 1	Nev.	
1, 910, 811	449, 681	1, 191, 572	231, 274	35, 909	2, 375	23. 5	62. 4	12. 1	Pac.	
438, 357	100, 343	287, 871	41, 889	7, 816	438	22. 9	65. 7	9. 6	Wash.	
261, 847	60, 142	170, 069	20, 514	4, 988	134	23. 0	64. 9	10. 1	Oreg.	
1, 210, 607	289, 196	733, 632	162, 871	23, 105	1, 803	23. 9	60. 6	13. 5	Calif.	

**No. 25.—ILLITERATE PERSONS 10 YEARS OF AGE AND OVER: CONTINENTAL UNITED STATES, 1910 AND 1920, AND BY GEOGRAPHIC DIVISIONS, 1920**

NOTE.—For definition of urban population, see Table 37. Illiteracy in this and subsequent tables is defined as inability to write in any language, regardless of ability to read. Per cents represent proportion illiterate in the total number of persons of given class and age.

Division, sex, and age	All classes <sup>1</sup>		Native white, native parentage		Native white, foreign or mixed parentage		Foreign-born white		Negro	
	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent
<b>United States, 1910.....</b>	<b>5,516,163</b>	<b>7.7</b>	<b>1,878,884</b>	<b>3.7</b>	<b>155,388</b>	<b>1.1</b>	<b>1,650,361</b>	<b>12.7</b>	<b>2,227,731</b>	<b>30.4</b>
10 to 20 years.....	946,146	4.7	265,457	2.3	36,470	0.8	142,868	11.1	485,083	20.0
21 years and over.....	4,570,017	8.9	1,113,427	4.3	118,918	1.3	1,507,493	12.9	1,742,648	35.7
Urban, total.....	1,748,880	5.1	128,937	0.9	58,964	0.7	1,157,524	12.5	392,974	17.6
Rural, total.....	3,767,333	10.1	1,249,947	5.4	96,224	1.9	492,837	13.3	1,354,757	36.0
<b>United States, 1920.....</b>	<b>4,931,905</b>	<b>6.0</b>	<b>1,109,875</b>	<b>2.5</b>	<b>132,697</b>	<b>0.8</b>	<b>1,763,740</b>	<b>13.1</b>	<b>1,842,161</b>	<b>22.9</b>
Males.....	2,540,209	6.0	614,612	2.7	70,095	0.8	866,822	11.7	942,368	23.5
Females.....	2,391,696	5.9	495,263	2.3	62,602	0.7	896,918	14.8	899,793	22.3
10 to 20 years.....	598,794	2.7	171,564	1.3	30,339	0.6	56,595	5.7	329,174	13.0
21 years and over.....	4,333,111	7.1	938,311	3.0	102,358	0.9	1,707,145	13.7	1,512,987	27.4
Urban, total.....	1,955,112	4.4	155,493	0.8	55,890	0.5	1,327,520	13.0	402,170	13.4
10 to 20 years.....	87,671	0.9	19,264	0.4	10,441	0.3	27,490	3.6	29,875	14.4
21 years and over.....	1,867,441	5.5	136,199	1.0	45,179	0.6	1,300,030	13.8	372,295	16.0
Rural, total.....	2,976,793	7.7	954,382	3.8	77,077	1.4	436,220	13.3	1,439,991	28.5
10 to 20 years.....	511,123	4.3	152,270	1.9	19,898	1.2	29,105	12.7	299,299	16.1
21 years and over.....	2,465,670	9.1	802,112	4.8	57,179	1.5	407,115	13.3	1,140,692	35.7
<b>New England.....</b>	<b>289,700</b>	<b>4.9</b>	<b>13,185</b>	<b>0.6</b>	<b>13,769</b>	<b>0.8</b>	<b>257,207</b>	<b>14.0</b>	<b>4,607</b>	<b>7.1</b>
10 to 20 years.....	8,874	0.7	2,127	0.4	1,954	0.3	4,623	3.4	141	1.1
21 years and over.....	280,826	6.1	11,058	0.6	11,805	1.1	252,584	14.8	4,466	8.5
Urban, total.....	245,299	5.2	4,880	0.3	9,054	0.6	226,504	14.0	4,057	6.9
Rural, total.....	44,401	3.6	8,305	1.1	4,705	1.9	30,703	13.7	550	9.0
<b>Middle Atlantic.....</b>	<b>885,382</b>	<b>4.9</b>	<b>52,924</b>	<b>0.7</b>	<b>24,408</b>	<b>0.5</b>	<b>760,010</b>	<b>15.7</b>	<b>25,587</b>	<b>5.0</b>
10 to 20 years.....	21,800	0.5	5,481	0.3	4,384	0.3	10,783	2.9	1,056	1.1
21 years and over.....	843,582	6.3	47,443	0.9	19,664	0.6	749,227	16.7	24,531	6.0
Urban, total.....	691,226	5.2	19,420	0.4	15,361	0.4	634,749	15.1	19,643	4.4
Rural, total.....	174,156	4.0	33,504	1.2	8,687	1.1	125,261	18.9	5,944	9.0
<b>East North Central.....</b>	<b>495,470</b>	<b>2.9</b>	<b>88,793</b>	<b>1.0</b>	<b>28,390</b>	<b>0.6</b>	<b>342,832</b>	<b>10.8</b>	<b>32,052</b>	<b>7.3</b>
10 to 20 years.....	15,232	0.4	7,421	0.3	3,030	0.2	3,667	1.8	968	1.2
21 years and over.....	480,238	3.7	81,372	1.3	25,660	0.8	339,165	11.4	31,084	8.7
Urban, total.....	351,628	3.3	30,787	0.7	12,848	0.4	280,567	11.3	20,308	6.8
Rural, total.....	143,842	2.2	58,006	1.3	15,542	1.0	62,205	8.8	5,744	10.8
<b>West North Central.....</b>	<b>193,221</b>	<b>2.0</b>	<b>59,954</b>	<b>1.1</b>	<b>14,678</b>	<b>0.5</b>	<b>88,760</b>	<b>6.4</b>	<b>24,887</b>	<b>10.5</b>
10 to 20 years.....	12,605	0.5	6,708	0.4	1,956	0.3	2,162	3.2	1,337	2.7
21 years and over.....	180,616	2.5	53,246	1.4	12,722	0.6	84,598	6.5	23,550	12.5
Urban, total.....	79,415	2.0	12,917	0.6	4,846	0.5	45,303	7.5	15,907	8.6
Rural, total.....	113,806	1.9	47,037	1.4	9,832	0.6	41,457	5.5	8,980	16.9
<b>South Atlantic.....</b>	<b>1,212,942</b>	<b>11.5</b>	<b>352,907</b>	<b>5.4</b>	<b>3,878</b>	<b>0.9</b>	<b>39,757</b>	<b>12.8</b>	<b>812,842</b>	<b>25.2</b>
10 to 20 years.....	206,178	6.2	55,312	2.7	605	0.5	972	4.0	148,607	13.4
21 years and over.....	1,006,764	14.0	297,595	6.6	3,273	1.1	38,785	13.5	664,235	31.5
Urban, total.....	227,055	6.4	87,271	1.8	1,949	0.6	24,690	11.2	162,827	17.2
Rural, total.....	985,887	14.1	315,636	7.0	1,929	1.9	15,067	16.4	650,015	28.6
<b>East South Central.....</b>	<b>845,459</b>	<b>12.7</b>	<b>299,025</b>	<b>6.6</b>	<b>2,626</b>	<b>1.5</b>	<b>6,457</b>	<b>9.1</b>	<b>538,583</b>	<b>27.9</b>
10 to 20 years.....	145,361	6.8	46,091	3.1	235	0.8	208	5.2	98,580	15.4
21 years and over.....	700,098	15.5	252,934	8.4	2,391	1.6	6,249	9.3	438,008	34.1
Urban, total.....	126,354	7.7	22,409	2.3	1,003	0.8	4,026	8.4	98,864	20.6
Rural, total.....	719,105	14.3	276,616	7.8	1,623	3.2	2,431	10.5	437,719	30.3
<b>West South Central.....</b>	<b>773,637</b>	<b>10.0</b>	<b>199,408</b>	<b>3.9</b>	<b>35,021</b>	<b>6.6</b>	<b>128,725</b>	<b>29.9</b>	<b>402,233</b>	<b>25.3</b>
10 to 20 years.....	162,274	6.5	42,231	2.5	15,691	9.9	24,649	33.8	73,364	14.9
21 years and over.....	611,363	11.7	157,177	4.6	19,330	5.2	104,076	29.1	323,869	30.5
Urban, total.....	146,820	6.1	19,307	1.3	6,819	2.8	47,788	23.1	72,397	16.1
Rural, total.....	626,817	11.8	180,101	5.0	28,202	9.7	80,937	36.3	329,836	29.0
<b>Mountain.....</b>	<b>132,659</b>	<b>5.3</b>	<b>35,163</b>	<b>2.4</b>	<b>5,897</b>	<b>1.0</b>	<b>55,422</b>	<b>12.7</b>	<b>1,457</b>	<b>5.3</b>
10 to 20 years.....	19,275	2.9	5,027	1.1	1,620	1.0	5,403	12.9	71	1.8
21 years and over.....	113,384	6.0	30,136	2.0	4,077	1.0	49,959	12.7	1,386	5.8
Urban, total.....	25,395	2.6	4,957	0.9	1,473	0.6	17,096	9.7	701	4.8
Rural, total.....	107,264	6.8	30,206	3.3	4,224	1.3	38,326	14.8	756	5.8
<b>Pacific.....</b>	<b>123,435</b>	<b>2.7</b>	<b>8,516</b>	<b>0.4</b>	<b>4,600</b>	<b>0.4</b>	<b>86,570</b>	<b>8.6</b>	<b>1,913</b>	<b>4.6</b>
10 to 20 years.....	7,195	0.8	1,166	0.2	864	0.3	4,068	5.7	50	0.7
21 years and over.....	116,240	3.2	7,350	0.4	3,736	0.4	82,502	8.8	1,863	5.4
Urban, total.....	61,920	2.1	3,345	0.3	2,267	0.3	46,797	7.0	1,466	4.1
Rural, total.....	61,515	3.7	4,971	0.6	2,333	0.6	39,773	11.6	447	8.5

<sup>1</sup> Includes Indians, Chinese, Japanese, and other nonwhites.

Source. Bureau of the Census, Department of Commerce

**No. 26.—ILLITERATE PERSONS 10 YEARS OF AGE AND OVER AND 21 YEAR OF AGE AND OVER: BY STATES**

Division and State	Number of illiterate persons 10 years of age and over						Illiterate persons of voting age	
	All classes <sup>1</sup>			Native white	Foreign-born white	Negro	Male	Female
	Total	Male	Female					
<b>Continental United States</b>	<b>4,931,905</b>	<b>2,540,209</b>	<b>2,391,696</b>	<b>1,242,572</b>	<b>1,768,740</b>	<b>1,842,161</b>	<b>2,192,363</b>	<b>2,140,743</b>
<b>New England</b>	<b>289,700</b>	<b>140,280</b>	<b>149,420</b>	<b>26,944</b>	<b>257,207</b>	<b>4,607</b>	<b>135,882</b>	<b>144,944</b>
Maine	20,240	12,421	7,819	8,398	11,604	64	11,310	7,262
New Hampshire	5,788	3,246	2,542	1,973	13,746	33	7,973	7,284
Vermont	8,488	5,156	3,332	3,613	4,837	28	4,957	3,195
Massachusetts	146,007	68,423	77,584	7,780	135,720	2,565	66,729	76,021
Rhode Island	31,812	14,168	17,644	2,255	28,169	839	13,723	16,596
Connecticut	67,265	31,866	35,399	2,927	63,131	1,078	31,190	34,586
<b>Middle Atlantic</b>	<b>865,382</b>	<b>413,458</b>	<b>451,924</b>	<b>76,972</b>	<b>760,010</b>	<b>25,587</b>	<b>403,400</b>	<b>440,182</b>
New York	425,022	188,353	236,669	28,406	389,603	5,032	184,213	231,146
New Jersey	127,661	61,546	66,115	9,699	111,595	5,910	60,076	64,282
Pennsylvania	312,699	163,559	149,140	38,870	258,812	14,645	159,111	144,754
<b>East North Central</b>	<b>496,470</b>	<b>262,638</b>	<b>233,832</b>	<b>117,183</b>	<b>342,832</b>	<b>32,052</b>	<b>253,978</b>	<b>226,262</b>
Ohio	131,006	72,627	58,379	33,726	84,387	12,715	70,192	56,543
Indiana	52,034	28,864	23,170	27,929	17,555	6,476	27,714	22,433
Illinois	173,987	86,698	87,289	30,907	131,996	10,476	84,059	85,068
Michigan	88,046	48,173	39,873	14,172	70,535	2,203	46,811	38,802
Wisconsin	50,397	26,276	24,121	10,449	38,359	182	25,290	23,416
<b>West North Central</b>	<b>193,221</b>	<b>101,744</b>	<b>91,477</b>	<b>74,632</b>	<b>86,760</b>	<b>24,887</b>	<b>94,196</b>	<b>86,420</b>
Minnesota	34,487	17,413	17,074	5,955	26,242	24,887	16,473	16,396
Iowa	20,680	11,333	9,327	8,275	11,004	1,283	10,608	8,830
Missouri	83,403	45,444	37,959	47,066	17,669	18,528	41,625	35,723
North Dakota	9,937	4,681	5,256	1,307	7,238	16	4,365	5,008
South Dakota	8,109	3,806	4,303	1,490	3,848	35	3,540	4,100
Nebraska	13,784	6,969	6,785	3,360	9,468	556	6,507	6,465
Kansas	22,821	12,048	10,773	7,179	11,291	4,223	11,078	9,892
<b>South Atlantic</b>	<b>1,212,942</b>	<b>637,960</b>	<b>574,982</b>	<b>356,785</b>	<b>39,767</b>	<b>812,842</b>	<b>512,165</b>	<b>454,599</b>
Delaware	10,508	5,697	4,811	2,427	3,373	4,700	5,447	4,641
Maryland	64,434	33,435	30,999	15,368	13,575	35,404	30,091	28,786
Dist. of Columbia	10,509	4,345	6,164	640	1,728	8,053	4,185	6,005
Virginia	195,159	107,374	87,785	70,475	2,150	122,322	86,819	75,557
West Virginia	69,413	40,896	28,517	44,324	14,548	10,513	35,927	25,541
North Carolina	241,603	126,302	116,301	104,844	474	133,674	102,402	102,090
South Carolina	220,607	110,425	110,242	38,742	391	181,422	86,614	92,868
Georgia	328,838	173,254	155,584	66,796	861	261,115	131,003	130,291
Florida	71,811	37,252	34,559	13,169	2,667	55,639	29,677	25,820
<b>East South Central</b>	<b>845,459</b>	<b>447,071</b>	<b>398,388</b>	<b>301,651</b>	<b>6,457</b>	<b>536,583</b>	<b>309,074</b>	<b>341,024</b>
Kentucky	155,014	86,495	68,519	112,206	2,244	40,548	74,405	61,830
Tennessee	182,620	98,852	83,777	101,809	1,263	79,532	80,491	72,672
Alabama	278,082	140,991	137,091	65,394	1,893	210,690	111,997	116,568
Mississippi	229,734	120,733	109,001	22,242	1,057	205,813	92,181	89,954
<b>West South Central</b>	<b>773,637</b>	<b>400,795</b>	<b>372,842</b>	<b>234,429</b>	<b>128,725</b>	<b>402,233</b>	<b>310,753</b>	<b>300,610</b>
Arkansas	121,837	63,959	57,878	41,411	1,145	79,245	50,376	49,037
Louisiana	299,092	148,081	151,011	81,957	9,707	206,730	110,821	119,159
Oklahoma	56,864	32,947	24,517	30,418	5,456	14,205	26,718	21,358
Texas	295,844	156,408	139,436	80,643	112,417	102,053	122,838	111,056
<b>Mountain</b>	<b>132,659</b>	<b>66,395</b>	<b>66,264</b>	<b>40,860</b>	<b>55,422</b>	<b>1,457</b>	<b>58,917</b>	<b>56,467</b>
Montana	9,544	5,357	4,187	1,067	5,178	87	5,076	3,995
Idaho	4,924	3,085	1,839	914	2,501	44	2,854	1,650
Wyoming	3,149	2,186	969	421	2,232	66	2,049	891
Colorado	24,268	11,837	12,621	8,624	14,224	619	10,558	11,522
New Mexico	41,637	18,235	23,402	25,519	7,250	228	15,050	19,902
Arizona	39,131	19,984	19,147	3,233	19,291	338	15,847	14,789
Utah	6,264	3,678	2,586	925	3,504	59	3,342	2,337
Nevada	3,802	2,289	1,513	157	1,241	16	2,141	1,375
<b>Pacific</b>	<b>123,435</b>	<b>69,448</b>	<b>53,587</b>	<b>13,116</b>	<b>56,570</b>	<b>1,913</b>	<b>66,005</b>	<b>50,235</b>
Washington	18,526	10,479	8,047	2,379	11,630	245	10,039	7,738
Oregon	9,317	5,589	3,728	1,990	5,172	89	5,357	3,548
California	95,592	53,780	41,812	8,747	69,768	1,579	50,609	38,949

<sup>1</sup> The total includes 83,432 illiterate persons among the Indians, Chinese, Japanese, and other nonwhite population.

Source: Bureau of the Census, Department of Commerce.

## No. 27.—PERCENTAGE OF ILLITERACY: By States

Division and State	Per cent illiterate among persons 10 years of age and over										Per cent illiterate among persons of voting age, 1920	
	All classes		Male	Female	Native white		Foreign-born white		Negro		Males	Fe-males
	1910	1920	1920	1920	1910	1920	1910	1920	1910	1920		
Continental United States	7 7	6 0	6 0	5 9	3 0	2 0	12 7	13 1	30 4	22.9	7 0	7.3
New England	5 3	4.9	4 8	5 0	0 9	0 7	13 8	14 0	7 8	7 1	6 0	6 2
Maine	4 1	3 3	3 9	2 5	2 0	1 6	13 7	11 1	8 0	5 9	4 7	3 1
New Hampshire	4 6	4 4	4.5	4 2	1 1	0 7	14 5	15 4	10 6	6 7	5 6	5 2
Vermont	3 7	3 0	3 6	2 4	1 9	1 5	13 1	11 3	4 8	6 2	4 5	3 0
Massachusetts	5 2	4 7	4.5	4 9	0 5	0 4	12 7	12 8	8 1	6 8	5 7	6 1
Rhode Island	7 7	6 5	6.0	7 0	1 3	0 7	17 3	16 5	9 5	10 2	7 6	8 8
Connecticut	6 0	6 2	5.8	6.6	0 6	0 4	15 4	17.0	6 3	6 2	7 4	8.4
Middle Atlantic	5 7	4.9	4.7	5.1	1 0	0 6	15 8	15 7	7 9	5 0	5 9	6 6
New York	5 5	5 1	4.5	5 6	0 8	0 5	13 7	14 2	5 0	2 9	5 7	7 1
New Jersey	5 6	5 1	4 9	5 3	0 9	0 6	14 7	15 3	9 9	6 1	6 3	6 9
Pennsylvania	5 9	4 6	4 7	4 5	1 3	0 8	20 1	18 9	9 1	6 1	6 2	5 9
East North Central	8 4	2 9	3 0	2 8	1 4	0 9	10 1	10 8	11 0	7.3	3 7	3 6
Ohio	3 2	2 8	3 0	2 6	1.5	0 9	11 5	12 6	11 1	8 1	3 8	3 3
Indiana	3 1	2 2	2 4	2 0	2 1	1 3	11 7	11 8	13 7	9 5	3 0	2 6
Illinois	3 7	3 4	3 3	3 4	1 3	0 8	10 1	11 0	10 5	6 7	4 1	4 4
Michigan	3 3	3 0	3.1	2 9	1 1	0 7	9 3	9 9	5 7	4 2	3 9	3 8
Wisconsin	3 2	2 4	2.5	2 4	0 9	0 7	8 7	8 4	4 5	4.1	3 2	3 2
West North Central	2 9	2 0	2 0	1 9	1 4	0 9	7.8	6 4	14 9	10 5	2 5	2 5
Minnesota	3 0	1 8	1 8	1 9	0 5	0 4	7 9	5 4	3 4	3 1	2 2	2.6
Iowa	1.7	1 1	1 2	1 0	0 8	0 5	6 3	4 9	10 3	8 1	1 4	1 3
Missouri	4 3	3 0	3 3	2 8	2 9	2 0	10 1	9 6	17 4	12 1	4 0	3 6
North Dakota	3.1	2 1	1 9	2 4	0 5	0 4	6 3	5 6	4.8	4 0	2.5	3 5
South Dakota	2 9	1 7	1 5	1 9	0 4	0 4	5 0	4 7	5 5	5 2	1 9	2 6
Nebraska	1.9	1 4	1 3	1 4	0 6	0 4	7 1	6 4	7 2	4 8	1 7	1 9
Kansas	2 2	1.6	1.7	1 6	0 8	0 6	10 5	10 5	12 0	8 8	2 1	2 0
South Atlantic	16 0	11.5	12 1	11 0	7 6	5 1	13 5	12 8	32 5	25 2	14 0	13 9
Delaware	8 1	5 9	6 2	5 5	2 9	1 8	19 8	17 3	25 6	19.1	7 7	7 0
Maryland	7.2	5 6	5 7	5 4	2 6	1 8	11 9	13 4	23 4	18 2	6 9	6 7
District of Columbia	4 9	2 8	2 5	3 0	0 5	0 3	8 2	6 1	13 5	8 6	3 0	3 6
Virginia	15 2	11 2	12 1	10 2	8 0	5 9	9 2	7 1	30 0	23 5	14 1	12 7
West Virginia	8 3	6 4	7 2	5 6	6 4	4 6	23 9	24 0	20 3	15 3	8 9	7 3
North Carolina	18 5	13 1	13 7	12 5	12 3	8 2	8 3	6 8	31 9	24 5	17 0	16 8
South Carolina	25 7	18 1	18 3	17 9	10 3	6 5	6 8	6 2	38 7	29 3	22 3	23 8
Georgia	20 7	15 3	16.2	14 4	7 8	5 4	6 0	5 4	36 5	29 1	18 4	18 4
Florida	13 8	9 6	9 6	9 5	5 0	2 9	10 5	6 3	25 5	21 5	10 6	11.3
East South Central	17 4	12 7	13.3	12 0	9 2	6 4	9 7	9 1	34 8	27 9	15 7	15 2
Kentucky	12 1	8 4	9 3	7 6	10 0	7 0	8 3	7 3	27 6	21 0	11 3	9 8
Tennessee	13 6	10 3	11 2	9 5	9 7	7 3	8 3	8 3	27 3	22 4	13 2	12 0
Alabama	22 9	16 1	16 4	15 8	9 9	6 3	11 3	10 9	40 1	31 3	19 5	20 5
Mississippi	22 4	17.2	18 1	16 3	5.2	3 6	15 1	13 3	35 6	29 3	20 9	20 7
West South Central	13 2	10 0	10 0	10 0	5 8	4 1	25 6	29 9	33 1	25 3	11 3	12 1
Arkansas	12 6	9 4	9 6	9 1	7 0	4 5	8 9	8 3	26 4	21 8	11 1	11.8
Louisiana	29 0	21 9	21 6	22 2	13.4	10 5	24 0	21 9	48 4	38 5	23 6	26 2
Oklahoma	5.6	3 8	4 1	3 4	3 3	2 3	9 8	14 0	17 7	12 4	4 9	4 5
Texas	9 9	8 3	8 5	8 2	4.3	3 0	30 0	33 8	24 6	17.8	9 6	9 7
Mountain	6 9	5 2	4 7	5 7	2 9	2 0	12 5	12 7	8 0	5 3	5.4	6.8
Montana	4 8	2 3	2 3	2 3	0 4	0 3	9 4	5 6	7 0	6 0	2 7	2 9
Idaho	2 2	1.5	1 7	1 3	0 3	0 3	6 9	6 5	6 4	5.4	2 1	1 6
Wyoming	3 3	2 1	2 5	1 5	0 3	0 3	9 7	9 0	5 0	5 3	2 9	1 9
Colorado	3 7	3 2	2 9	3 6	1 6	1 4	11 3	12 4	8.6	6 2	3.5	4.4
New Mexico	20 2	15 6	12 7	18 9	14 9	11 6	31 0	27 1	14 2	12 3	14 7	24.1
Arizona	20 9	15 3	13 9	17.1	4 2	2 1	31 5	27 5	7.2	4 6	14 5	18.8
Utah	2 5	1 9	2 1	1 6	0 4	0 3	5 9	6 3	4 8	4 6	2 8	2 2
Nevada	6 7	5 9	5.8	6.2	0 4	0 4	7 6	8.5	5.5	5.1	6 4	7.3
Pacific	3 0	2 7	2.8	2 5	0 4	0 4	8 0	8 6	6 3	4 6	3.3	3 0
Washington	2 0	1.7	1.7	1 6	0 3	0 3	4 8	4 7	4.3	4 0	2 1	2.1
Oregon	1 9	1.5	1.6	1 3	0 4	0 4	6 1	5 1	3 4	4 7	2 0	1 6
California	3 7	3.3	3 5	3 1	0 5	0 4	10 0	10 5	7 1	4.7	4 0	3.6

Source . Bureau of the Census, Department of Commerce.

**No. 28.—DWELLINGS, FAMILIES, AND TENURE OF HOMES: BY STATES, 1920**

NOTE.—A dwelling is a place in which one or more persons regularly sleep. A hotel, a boarding house, an institution, or an apartment house, though containing many families, constitutes but one dwelling, while a boat, tent, room in a factory, store, etc., although occupied by only one person, is also counted as a dwelling. A family signifies a group of persons, whether related by blood or not, who live in one household, usually sharing the same table. One person alone is a family, while occupants and employees of a hotel, if that is the usual place of abode, and all the inmates of an institution are treated as a single family.

Division and State	Total dwellings	Total families	Families having homes—				Tenure unknown
			Rented	Free	Mortgaged	Unknown	
<b>Continental United States—</b>							
1910.....	17,805,845	20,255,555	10,697,895	5,984,284	2,931,695	167,732	473,949
1920.....	20,697,204	24,351,676	12,943,598	6,522,119	4,059,593	285,248	541,118
<b>New England—</b>							
Maine.....	1,255,964	1,703,812	1,010,586	335,753	322,064	10,507	24,902
New Hampshire.....	162,304	186,106	80,540	25,979	25,979	2,310	3,417
Vermont.....	92,184	108,334	53,159	36,195	15,193	1,390	2,397
Massachusetts.....	77,158	85,804	35,706	29,029	15,571	770	1,728
Rhode Island.....	597,052	874,798	564,997	126,312	171,741	3,192	9,456
Connecticut.....	98,861	137,160	92,800	19,889	21,352	680	2,439
Middle Atlantic—	228,405	311,610	190,964	43,788	69,228	2,165	5,465
New York.....	3,566,549	5,085,080	3,144,593	934,703	892,787	38,633	78,424
New Jersey.....	1,325,114	2,441,125	1,670,088	342,452	381,776	14,510	32,299
Pennsylvania.....	515,211	721,841	438,911	101,598	165,844	4,472	11,016
West North Central—	1,726,224	1,922,114	1,035,534	490,633	345,167	17,651	33,109
Ohio.....	4,385,541	5,143,913	2,407,639	1,510,174	1,069,927	63,951	92,222
Indiana.....	1,216,542	1,414,068	673,888	432,804	271,872	14,421	21,113
Illinois.....	696,466	737,707	326,192	243,851	139,796	11,755	16,113
Michigan.....	1,190,414	1,534,077	846,071	370,221	268,446	19,593	29,746
Wisconsin.....	755,931	862,745	340,054	268,287	220,467	10,717	14,220
West North Central—	526,188	595,316	212,464	195,011	169,346	7,465	11,030
Minnesota.....	2,716,988	2,987,848	1,257,816	952,049	681,238	43,484	73,262
Iowa.....	469,652	526,026	202,222	181,253	123,786	7,328	11,437
Missouri.....	559,188	586,070	289,880	205,115	119,289	8,163	13,623
North Dakota.....	717,256	829,043	409,068	229,129	163,824	8,714	18,308
South Dakota.....	129,905	134,831	45,050	37,263	43,375	4,281	4,927
Nebraska.....	136,512	142,793	53,090	46,438	34,621	3,663	4,982
Kansas.....	288,390	303,436	125,713	99,715	63,973	5,410	8,625
South Atlantic—	416,065	435,600	182,784	153,131	82,370	5,955	11,360
Delaware.....	2,781,694	2,991,628	1,684,936	696,122	261,864	43,228	65,476
Maryland.....	47,868	52,070	28,287	12,358	9,672	799	954
District of Columbia.....	288,261	324,742	160,219	94,695	60,857	3,710	5,261
Virginia.....	72,175	96,194	65,654	12,354	15,375	774	2,037
West Virginia.....	450,229	483,363	231,563	187,547	48,614	5,901	9,788
North Carolina.....	238,002	310,098	160,528	109,732	26,477	5,153	8,208
South Carolina.....	495,269	513,377	261,303	186,460	38,498	10,884	16,232
Georgia.....	330,500	349,126	227,657	80,911	21,977	5,291	13,290
Florida.....	586,509	628,525	421,047	141,899	39,546	6,740	19,293
East South Central—	217,871	284,133	128,678	70,166	20,848	3,976	10,465
Kentucky.....	1,867,167	1,977,381	1,101,352	617,367	181,669	24,095	52,898
Tennessee.....	510,981	546,306	258,643	209,239	50,846	6,908	11,670
Alabama.....	488,392	519,108	264,982	186,190	50,056	5,620	12,251
Mississippi.....	480,392	508,769	319,756	124,456	41,445	6,462	16,650
West South Central—	387,402	403,198	257,971	97,473	30,322	5,105	12,327
Arkansas.....	2,110,879	2,242,810	1,252,703	613,789	262,404	37,185	78,729
Louisiana.....	375,316	390,960	208,491	119,279	46,727	5,247	11,216
Oklahoma.....	370,377	389,913	248,802	94,420	24,515	7,475	14,701
Texas.....	418,557	444,524	231,813	109,001	74,586	10,253	18,871
Mountain—	946,629	1,017,413	563,597	291,089	116,576	14,210	31,941
Montana.....	743,775	808,858	349,755	209,907	149,458	11,674	23,059
Idaho.....	130,670	139,912	53,362	43,776	35,559	2,505	4,710
Wyoming.....	95,209	100,500	38,013	30,974	26,957	1,277	3,279
Colorado.....	44,710	48,476	22,271	14,167	8,579	1,314	2,145
New Mexico.....	211,103	230,843	109,501	71,155	43,244	2,382	4,561
Arizona.....	78,024	83,706	32,907	38,593	8,208	1,351	2,647
Utah.....	73,673	80,208	44,163	24,605	7,797	673	2,970
Nevada.....	89,587	98,346	38,598	38,842	17,582	1,561	1,763
Pacific—	20,709	21,862	10,940	7,795	1,532	611	984
Washington.....	1,268,677	1,445,350	734,278	392,255	268,182	14,491	36,144
Oregon.....	304,735	342,225	151,513	106,729	72,655	3,938	7,393
California.....	185,081	202,890	89,588	66,491	40,054	2,227	4,530
	778,861	900,232	493,177	219,035	155,473	8,326	24,221

Source. Bureau of the Census, Department of Commerce.

**No. 29.—DWELLINGS AND FAMILIES: AVERAGE NUMBER OF PERSONS PER DWELLING AND PER FAMILY AND PERCENTAGE DISTRIBUTION OF FAMILIES ACCORDING TO TENURE OF HOME, BY STATES**

NOTE.—In computing the percentages the homes reported as of unknown proprietorship and encumbrance have been distributed in the same proportion as the known

Division or State	Average persons per dwelling		Average persons per family		Per cent of total number of families (1920) having homes—				Per cent of owned homes, 1920	
	1910	1920	1910	1920	Rented	Owned	Owned free	Owned encumbered	Free	Encumbered
<b>Continental United States</b>	<b>5 2</b>	<b>5 1</b>	<b>4 5</b>	<b>4 3</b>	<b>54 4</b>	<b>45 6</b>	<b>28 2</b>	<b>17 5</b>	<b>61 7</b>	<b>38 3</b>
<b>New England</b>	<b>6 0</b>	<b>5 9</b>	<b>4 5</b>	<b>4 3</b>	<b>60 2</b>	<b>39 8</b>	<b>20 4</b>	<b>19 5</b>	<b>51 1</b>	<b>48 9</b>
Maine	4 7	4 7	4 2	4 1	40 4	59 6	45 0	14 5	75 6	24 4
New Hampshire	4 8	4 8	4 2	4 1	50 2	49 8	35 1	14 7	70 4	29 6
Vermont	4 6	4 6	4 2	4 1	42 5	57 5	35 1	22 4	61 0	39 0
Massachusetts	6 6	6 5	4 6	4 4	65 2	34 8	14 8	20 1	42 4	57 6
Rhode Island	6 8	6 1	4 6	4 4	68 9	31 1	15 0	16 1	48 2	51 8
Connecticut	6 1	6 0	4 5	4 4	62 4	37 6	14 6	23 0	38 7	61 3
<b>Middle Atlantic</b>	<b>6 2</b>	<b>6 2</b>	<b>4 6</b>	<b>4 4</b>	<b>62 8</b>	<b>37 2</b>	<b>19 0</b>	<b>18 2</b>	<b>51 2</b>	<b>48 8</b>
New York	7 7	7 8	4 5	4 3	69 3	30 7	14 5	16 2	47 3	52 7
New Jersey	6 2	6 1	4 5	4 4	61 7	38 3	14 5	23 7	38 0	62 0
Pennsylvania	5 1	5 1	4 7	4 5	54 8	45 2	26 5	18 7	58 7	41 3
<b>East North Central</b>	<b>4 9</b>	<b>4 9</b>	<b>4 3</b>	<b>4 2</b>	<b>47 7</b>	<b>52 3</b>	<b>30 6</b>	<b>21 7</b>	<b>58 5</b>	<b>41 5</b>
Ohio	4 7	4 7	4 2	4 1	48 4	51 6	31 7	19 9	61 4	38 6
Indiana	4 3	4 2	4 1	4 0	45 2	54 8	34 8	20 0	63 6	36 4
Illinois	5 6	5 4	4 5	4 2	56 2	43 8	25 4	18 4	58 0	42 0
Michigan	4 5	4 9	4 3	4 3	41 1	58 9	32 3	20 6	54 9	45 1
Wisconsin	5 0	5 0	4 7	4 4	36 4	63 6	34 1	29 6	53 5	46 5
<b>West North Central</b>	<b>4 8</b>	<b>4 6</b>	<b>4 5</b>	<b>4 2</b>	<b>43 6</b>	<b>56 4</b>	<b>33 9</b>	<b>22 5</b>	<b>60 1</b>	<b>39 9</b>
Minnesota	5 5	5 1	5 0	4 5	39 3	60 7	36 1	24 6	59 4	40 6
Iowa	4 5	4 3	4 3	4 1	41 9	58 1	36 7	21 4	63 2	36 8
Missouri	4 9	4 7	4 4	4 1	50 5	49 5	25 9	20 7	58 3	41 7
North Dakota	4 9	5 0	4 8	4 8	34 7	65 3	30 2	35 1	46 2	53 8
South Dakota	4 6	4 7	4 5	4 5	38 5	61 5	35 2	26 3	57 3	42 7
Nebraska	4 6	4 5	4 5	4 3	42 6	57 4	34 9	22 4	60 9	39 1
Kansas	4 4	4 3	4 3	4 1	43 1	56 9	37 0	19 9	65 0	35 0
<b>South Atlantic</b>	<b>5 0</b>	<b>5 0</b>	<b>4 8</b>	<b>4 7</b>	<b>53 0</b>	<b>42 0</b>	<b>32 0</b>	<b>10 0</b>	<b>76 2</b>	<b>23 8</b>
Delaware	4 7	4 7	4 5	4 3	55 3	44 7	25 1	19 6	56 1	43 9
Maryland	5 1	5 0	4 7	4 5	50 1	49 9	30 3	19 5	60 9	39 1
District of Columbia	5 7	6 1	4 6	4 5	69 7	30 3	13 5	16 8	44 6	55 4
Virginia	5 1	5 1	4 9	4 8	48 9	51 1	40 6	10 5	79 4	20 6
West Virginia	5 1	5 0	4 9	4 7	53 2	46 8	37 7	9 1	80 6	19 4
North Carolina	5 1	5 2	5 0	4 7	62 6	47 4	39 3	8 1	82 9	17 1
South Carolina	5 0	5 1	4 8	4 8	67 8	32 2	25 3	6 9	78 6	21 4
Georgia	4 9	4 9	4 7	4 6	69 1	30 9	24 2	6 7	78 2	21 8
Florida	4 5	4 4	4 4	4 1	57 5	42 5	32 7	9 7	77 1	22 9
<b>East South Central</b>	<b>4 9</b>	<b>4 8</b>	<b>4 7</b>	<b>4 5</b>	<b>57 3</b>	<b>42 7</b>	<b>33 0</b>	<b>9 7</b>	<b>77 2</b>	<b>22 8</b>
Kentucky	4 9	4 7	4 6	4 4	48 4	51 6	40 1	11 5	77 8	22 2
Tennessee	4 9	4 8	4 7	4 5	52 3	47 7	37 6	10 1	78 8	21 2
Alabama	4 8	4 9	4 7	4 6	65 0	35 0	26 3	8 7	75 0	25 0
Mississippi	4 8	4 6	4 7	4 4	66 0	34 0	25 9	8 1	76 3	23 7
<b>West South Central</b>	<b>4 9</b>	<b>4 9</b>	<b>4 8</b>	<b>4 6</b>	<b>37 8</b>	<b>42 2</b>	<b>29 5</b>	<b>12 6</b>	<b>70 0</b>	<b>30 0</b>
Arkansas	4 3	4 7	4 7	4 5	54 9	45 1	32 4	12 7	71 9	28 1
Louisiana	5 0	4 9	4 8	4 6	66 3	33 7	26 7	6 9	79 4	20 6
Oklahoma	4 8	4 8	4 7	4 6	54 5	45 5	27 0	18 5	59 4	40 6
Texas	5 0	4 9	4 9	4 6	57 2	42 8	30 6	12 2	71 4	28 6
<b>Mountain</b>	<b>4 5</b>	<b>4 5</b>	<b>4 3</b>	<b>4 2</b>	<b>44 8</b>	<b>55 2</b>	<b>35 5</b>	<b>19 7</b>	<b>64 4</b>	<b>35 6</b>
Montana	4 5	4 2	4 3	3 9	39 5	60 5	33 4	27 1	55 2	44 8
Idaho	4 5	4 5	4 4	4 3	39 1	60 9	32 6	28 3	53 5	46 5
Wyoming	4 7	4 3	4 5	4 0	48 1	51 9	32 4	19 6	62 3	37 7
Colorado	4 3	4 5	4 1	4 1	48 4	51 6	32 1	19 5	62 2	37 8
New Mexico	4 3	4 6	4 1	4 3	40 6	59 4	49 0	10 4	82 5	17 5
Arizona	4 5	4 5	4 3	4 2	57 2	42 8	32 5	10 3	75 9	24 1
Utah	5 1	5 0	4 8	4 6	40 0	60 0	41 3	18 7	68 8	31 2
Nevada	3 6	3 7	3 5	3 5	52 4	47 6	39 8	7 8	83 6	16 4
<b>Pacific</b>	<b>4 7</b>	<b>4 4</b>	<b>4 3</b>	<b>3 9</b>	<b>52 1</b>	<b>47 9</b>	<b>28 4</b>	<b>19 4</b>	<b>59 4</b>	<b>40 6</b>
Washington	4 8	4 5	4 5	4 0	45 3	54 7	32 6	22 2	59 5	40 5
Oregon	4 6	4 2	4 4	3 9	45 3	54 8	34 2	20 6	62 4	37 6
California	4 6	4 4	4 2	3 8	56 3	43 7	25 6	18 1	58 5	41 5

Source: Bureau of the Census, Department of Commerce



## No. 30.—FOREIGN-BORN POPULATION, ALL RACES, BY COUNTRY OF BIRTH: CONTINENTAL UNITED STATES

Country of birth	Number						Per cent of increase <sup>1</sup>	
	1870	1880	1890	1900	1910	1920	1900-1910	1910-1920
Total foreign born.....	5,567,229	6,879,943	9,249,560	10,341,276	13,515,886	13,920,692	30.7	3.0
Europe.....	4,936,618	5,744,311	8,020,605	8,871,780	11,791,841	11,882,053	32.9	0.8
Northwestern Europe.....	3,124,633	3,494,484	4,380,752	4,202,683	4,239,067	3,830,094	0.9	-9.6
England.....	555,046	664,160	909,092	840,513	877,719	813,853	4.4	-7.3
Scotland.....	140,835	170,136	242,231	233,624	261,076	254,570	11.8	-2.5
Wales.....	74,533	83,302	100,079	93,586	82,488	67,066	-11.9	-18.7
Ireland.....	1,855,827	1,854,571	1,871,509	1,615,459	1,352,251	1,037,234	-16.3	-23.3
Norway.....	114,246	181,729	322,665	366,388	403,877	363,863	20.1	-9.9
Sweden.....	97,332	194,337	478,041	582,014	665,207	625,585	14.3	-6.0
Denmark <sup>2</sup> .....	30,107	64,196	132,543	153,690	181,649	189,154	18.2	4.1
Netherlands.....	46,802	58,090	81,828	94,931	120,063	131,766	26.5	9.7
Belgium <sup>3</sup> .....	12,553	15,535	22,639	29,757	49,400	62,687	66.0	26.9
Luxemburg.....	5,802	12,836	2,882	3,031	3,071	12,585	1.3	309.8
Switzerland.....	75,153	88,621	104,069	115,593	124,848	118,659	8.0	-5.0
France <sup>4</sup> .....	116,402	106,971	113,174	104,197	117,418	153,072	12.7	30.4
Central and Eastern Europe.....	1,784,449	2,187,776	3,420,629	4,136,646	6,024,041	6,134,845	45.6	1.8
Germany <sup>5</sup> .....	1,690,533	1,966,742	2,784,894	2,663,418	2,311,237	1,686,108	-13.2	-27.0
Poland <sup>6</sup> .....	14,436	48,557	147,440	383,407	893,884	1,139,979	144.6	21.5
Czechoslovakia <sup>7</sup> .....						362,438		
Austria <sup>8</sup> .....	70,797	124,024	241,377	432,798	845,555	575,627	95.4	-31.9
Hungary <sup>9</sup> .....	3,737	11,526	62,435	145,714	495,609	397,283	240.1	-19.8
Yugoslavia <sup>10</sup> .....						169,459		
Serbia <sup>11</sup> .....						4,639		
Montenegro <sup>12</sup> .....						5,374		
Russia and Lithuania.....						1,585,563	179.5	26.6
Finland.....	4,644	35,722	182,644	423,726	1,184,412	1,498,824	107.0	15.5
Rumania <sup>13</sup> .....						65,923	338.6	56.0
Bulgaria <sup>14</sup> .....						11,498		-8.9
Turkey in Europe <sup>15</sup> .....	6,302	1,205	1,839	9,910	7,32,230	5,284	-225.2	-83.6
Southern Europe.....	25,853	58,265	206,648	530,200	1,525,875	1,911,213	187.8	25.3
Greece <sup>16</sup> .....	390	776	1,887	8,515	101,282	175,976	1,089.5	73.7
Albania.....						(?)		
Italy <sup>17</sup> .....	17,157	44,230	182,580	484,027	1,343,125	1,610,113	177.5	19.9
Spain.....	3,764	5,121	6,185	7,050	22,108	49,535	213.6	124.1
Portugal.....	4,542	8,138	15,966	30,608	59,360	69,981	93.9	17.9
Other Europe <sup>18</sup> .....	1,678	3,786	12,579	2,251	2,858	5,901	471.8	106.5
Asia.....	64,565	107,630	113,396	120,248	191,484	237,950	59.2	24.3
Armenia, Palestine, Syria, and Turkey in Asia.....	(6)	(6)	(6)	(6)	59,729	102,751	-----	72.0
China.....	63,042	104,468	106,701	81,534	56,756	43,560	-30.4	-23.3
Japan.....	73	401	2,292	24,788	67,744	81,502	173.8	20.3
India.....	586	1,707	2,143	2,031	4,664	4,901	129.6	5.1
Other Asia.....	804	1,054	2,260	11,895	2,591	5,236	-78.2	102.1
America.....	551,335	807,280	1,088,245	1,317,380	1,489,231	1,727,017	13.0	16.0
Canada and Newfoundland <sup>19</sup> .....	493,464	717,157	980,938	1,179,922	1,209,717	1,138,174	2.5	-5.9
Canada—								
French <sup>20</sup> .....			302,496	395,126	385,083	307,786	-2.5	-20.1
Other <sup>21</sup> .....			678,442	784,796	819,554	817,139	4.4	-0.3
Newfoundland <sup>22</sup> .....					5,080	13,249	-----	160.8
West Indies.....	11,570	16,401	23,256	19,25,435	10,47,635	10,78,962	87.3	65.8
Mexico.....	42,435	68,899	77,853	103,392	221,815	456,418	114.6	119.2
Central and South America.....	3,866	5,273	6,198	8,630	9,964	23,463	15.5	135.5
All other.....	14,711	20,772	27,311	31,868	43,330	73,672	36.0	70.0

<sup>1</sup> A minus sign (—) denotes decrease.<sup>2</sup> Boundaries changed since 1910. Statistics for 1920 relate to postwar boundaries, for 1910, to prewar boundaries.<sup>3</sup> Persons reported in 1910 as of Polish mother tongue born in Germany (190,096), Austria (329,418), and Russia (418,370) have been deducted from the respective countries and combined as Poland for comparison with number reported in 1920 as born in Poland. Though Poland before 1919 was divided among Russia, Germany, and Austria, the censuses of 1870 to 1900 listed it as a country of birth.<sup>4</sup> Created since 1910.<sup>5</sup> Included as part of Yugoslavia in 1920.<sup>6</sup> Turkey in Asia included with Turkey in Europe prior to 1910.<sup>7</sup> Albania included with Turkey in Europe in 1910 and earlier years.<sup>8</sup> Includes "Europe, not specified" at each census, and Danzig, Pomerania, and Saar Basin in 1920.<sup>9</sup> Newfoundland included with Canada prior to 1910.<sup>10</sup> Except possessions of the United States.

Source: Bureau of the Census, Department of Commerce.

# 34 POPULATION—FOREIGN BORN BY COUNTRY OF BIRTH

## No. 31.—FOREIGN-BORN WHITE POPULATION, BY COUNTRY OF BIRTH, CONTINENTAL UNITED STATES

NOTE.—Statistics for 1910 are on the basis of prewar, for 1920, postwar boundaries (see notes to Table 30). For estimates of the total white population by countries of origin, calculated for immigration purposes, see Table 116

Country of birth	1910		1920		Country of birth	1920		1920	
	Number	Per cent	Number	Per cent		Number	Per cent	Number	Per cent
<b>Total</b> .....	13,345,545	100.0	13,712,754	100.0	<b>E. Europe—Contd.</b>				
<b>Europe</b> .....	11,787,878	88.3	11,877,991	86.6	Bulgaria.....	1,453	0.1	10,477	0.1
<b>Northwestern Europe</b> .....	4,237,373	31.8	3,898,878	27.9	Turkey in Europe <sup>2</sup> .....	32,221	0.2	5,284	(1)
England.....	876,455	6.6	812,828	5.9	<b>Southern Europe</b> .....	1,623,934	11.4	1,908,389	13.9
Scotland.....	261,034	2.0	254,567	1.9	Greece <sup>4</sup> .....	101,264	0.8	175,972	1.3
Wales.....	82,479	0.6	67,066	0.5	Albania.....	(2)		5,608	(1)
Ireland.....	1,352,155	10.1	1,037,233	7.6	Italy <sup>4</sup> .....	1,343,070	10.1	1,610,109	11.7
Norway.....	403,858	3.0	363,862	2.7	Spain.....	21,977	0.2	49,247	0.4
Sweden.....	665,183	5.0	625,580	4.6	Portugal.....	57,623	0.4	67,453	0.5
Denmark.....	181,621	1.4	189,154	1.4	<b>Other Europe</b> .....	2,853	(1)	5,901	(1)
Netherlands.....	120,053	0.9	131,766	1.0	Asia.....	64,814	0.5	110,450	0.8
Belgium.....	49,397	0.4	62,686	0.5	Turkey in Asia <sup>3</sup> .....	59,702	0.4	11,014	0.1
Luxemburg.....	3,068	(1)	12,585	0.1	Armenia.....			38,626	0.3
Switzerland.....	124,834	0.9	118,659	0.9	Palestine.....	(2)		3,202	(1)
France <sup>4</sup> .....	117,236	0.9	162,890	1.1	Syria.....			51,900	0.4
<b>Central Europe</b> .....	4,181,703	31.8	4,330,860	31.6	Other Asia.....	4,612	(1)	7,708	0.1
Germany <sup>2</sup> .....	2,501,181	18.7	1,636,102	12.3	America.....	1,453,186	10.9	1,656,801	12.1
Poland.....	(2)		1,139,978	8.3	Canada.....				
Czechoslovakia.....	(2)		362,436	2.6	French.....	385,083	2.9	307,786	2.2
Austria <sup>3</sup> .....	1,174,924	8.8	575,625	4.2	Other.....	810,987	6.1	810,092	5.9
Hungary <sup>3</sup> .....	496,600	3.7	397,282	2.9	Newfoundland.....	5,076	(1)	13,242	0.1
Serbia.....	4,635	(1)	(2)		Mexico.....	219,802	1.6	478,383	3.5
Montenegro.....	5,363	(1)	(2)		West Indies <sup>1</sup> .....	23,169	0.2	26,369	0.2
Yugoslavia.....			169,437	1.2	<b>Central and South America</b> .....	9,069	0.1	20,929	0.2
<b>Eastern Europe</b> .....	1,842,015	13.8	1,803,965	13.2	Other countries.....	40,187	0.3	87,512	0.5
Russia.....	1,602,752	12.0	1,400,489	10.2	Atlantic Islands.....	15,795	0.1	38,984	0.3
Lithuania.....	(2)		135,068	1.0	Australia.....	8,938	0.1	10,801	0.1
Finland.....	129,669	1.0	149,824	1.1	All other.....	15,484	0.1	17,727	0.1
Rumania <sup>4</sup> .....	65,920	0.5	102,828	0.7					

<sup>1</sup> Less than one-tenth of 1 per cent

<sup>2</sup> Included in another country or countries

<sup>3</sup> Boundaries changed with loss of territory

<sup>4</sup> Boundaries changed with increase of territory

<sup>5</sup> Excluding possessions of United States in 1920

## No. 32.—URBAN AND RURAL FOREIGN-BORN POPULATION: CONTINENTAL UNITED STATES, 1920, BY COUNTRY OF BIRTH

NOTE.—See Table 37 for explanation of urban and rural segregation

Country of birth	Urban	Rural	Percent urban	Country of birth	Urban	Rural	Percent urban
<b>Total population</b> .....	54,304,603	51,406,017	51.4	<b>E. Europe—Contd</b>			
<b>Total foreign born</b> .....	10,500,942	3,419,750	75.4	Bulgaria.....	7,879	2,598	75.2
<b>Northwestern Europe</b> .....	2,737,407	1,092,687	71.5	Turkey in Europe.....	4,826	458	91.3
England.....	620,676	193,177	76.3	<b>Southern Europe</b> .....	1,607,943	303,270	84.1
Scotland.....	195,614	98,956	76.8	Greece.....	154,052	21,924	87.5
Wales.....	47,716	19,350	71.1	Albania.....	5,156	452	91.9
Ireland.....	900,947	136,287	86.9	Italy.....	1,359,250	250,863	84.4
Norway.....	171,698	192,165	47.2	Spain.....	26,363	13,172	73.4
Sweden.....	394,700	230,885	63.1	Portugal.....	53,122	10,859	75.9
Denmark.....	101,016	88,138	53.4	<b>Other Europe</b> .....	4,523	1,378	76.6
Netherlands.....	74,424	67,342	56.5	Asia.....	170,690	67,260	71.7
Belgium.....	41,710	20,977	66.5	Armenia.....	30,307	6,321	82.7
Luxemburg.....	7,213	5,372	57.3	Palestine.....	2,914	289	91.0
Switzerland.....	67,731	50,928	57.1	Syria.....	45,321	6,580	87.3
France.....	113,962	39,110	74.4	Turkey in Asia.....	9,854	1,165	89.4
<b>Central Europe</b> .....	3,207,139	1,123,735	74.1	China.....	34,635	8,925	79.5
Germany.....	1,137,961	548,147	67.5	Japan.....	40,751	2,208	90.0
Poland.....	961,813	178,166	84.4	India.....	2,693	2,088	54.9
Czechoslovakia.....	240,453	121,985	66.3	Other Asia.....	4,215	1,021	80.5
Austria.....	431,670	143,957	75.0	America.....	1,170,024	556,993	67.7
Hungary.....	317,737	79,546	80.0	Canada—French.....	243,750	64,036	79.2
Yugoslavia.....	117,505	51,934	69.3	Canada—Other.....	591,812	225,327	72.4
<b>Eastern Europe</b> .....	1,845,928	258,045	85.7	Newfoundland.....	12,037	1,212	90.0
Russia.....	1,241,157	159,338	88.6	West Indies <sup>1</sup> .....	72,742	2,208	92.1
Lithuania.....	118,634	16,434	87.8	Mexico.....	229,179	237,239	47.1
Finland.....	79,974	69,850	53.4	<b>Central and South America</b> .....	20,504	2,959	87.4
Rumania.....	93,450	9,307	90.9	All other.....	57,290	16,382	77.8

<sup>1</sup> Except possessions of the United States.

Source of Tables: 31 and 32, Bureau of the Census, Department of Commerce

# 34 POPULATION—FOREIGN BORN BY COUNTRY OF BIRTH

## No. 31.—FOREIGN-BORN WHITE POPULATION, BY COUNTRY OF BIRTH, CONTINENTAL UNITED STATES

NOTE.—Statistics for 1910 are on the basis of prewar, for 1920, postwar boundaries (see notes to Table 30). For estimates of the total white population by countries of origin, calculated for immigration purposes, see Table 116

Country of birth	1910		1920		Country of birth	1920		1920	
	Number	Per cent	Number	Per cent		Number	Per cent	Number	Per cent
<b>Total</b> .....	13,345,545	100.0	13,712,754	100.0	<b>E. Europe—Contd.</b>				
<b>Europe</b> .....	11,787,878	88.3	11,877,991	86.6	Bulgaria.....	1,453	0.1	10,477	0.1
<b>Northwestern Europe</b> .....	4,237,373	31.8	3,898,878	27.9	Turkey in Europe <sup>2</sup> .....	32,221	0.2	5,284	(1)
England.....	876,455	6.6	812,828	5.9	<b>Southern Europe</b> .....	1,623,934	11.4	1,908,389	13.9
Scotland.....	261,034	2.0	254,567	1.9	Greece <sup>4</sup> .....	101,264	0.8	175,972	1.3
Wales.....	82,479	0.6	67,066	0.5	Albania.....	(2)		5,608	(1)
Ireland.....	1,352,155	10.1	1,037,233	7.6	Italy <sup>4</sup> .....	1,343,070	10.1	1,610,109	11.7
Norway.....	403,858	3.0	363,862	2.7	Spain.....	21,977	0.2	49,247	0.4
Sweden.....	665,183	5.0	625,580	4.6	Portugal.....	57,623	0.4	67,453	0.5
Denmark.....	181,621	1.4	189,154	1.4	<b>Other Europe</b> .....	2,853	(1)	5,901	(1)
Netherlands.....	120,053	0.9	131,766	1.0	Asia.....	64,814	0.5	110,450	0.8
Belgium.....	49,397	0.4	62,686	0.5	Turkey in Asia <sup>3</sup> .....	59,702	0.4	11,014	0.1
Luxemburg.....	3,068	(1)	12,585	0.1	Armenia.....			38,626	0.3
Switzerland.....	124,834	0.9	118,659	0.9	Palestine.....	(2)		3,202	(1)
France <sup>4</sup> .....	117,236	0.9	162,890	1.1	Syria.....			51,900	0.4
<b>Central Europe</b> .....	4,181,703	31.8	4,330,860	31.6	Other Asia.....	4,612	(1)	7,708	0.1
Germany <sup>2</sup> .....	2,501,181	18.7	1,636,102	12.3	America.....	1,453,186	10.9	1,656,801	12.1
Poland.....	(2)		1,139,978	8.3	Canada.....				
Czechoslovakia.....	(2)		362,436	2.6	French.....	385,083	2.9	307,786	2.2
Austria <sup>2</sup> .....	1,174,924	8.8	575,625	4.2	Other.....	810,987	6.1	810,092	5.9
Hungary <sup>2</sup> .....	495,600	3.7	397,282	2.9	Newfoundland.....	5,076	(1)	13,242	0.1
Serbia.....	4,635	(1)	(2)		Mexico.....	219,802	1.6	478,383	3.5
Montenegro.....	5,363	(1)	(2)		West Indies <sup>1</sup> .....	23,169	0.2	26,369	0.2
Yugoslavia.....			169,437	1.2	<b>Central and South America</b> .....	9,069	0.1	20,929	0.2
<b>Eastern Europe</b> .....	1,842,015	13.8	1,803,965	13.2	<b>Other countries</b> .....	40,187	0.3	87,512	0.5
Russia.....	1,602,752	12.0	1,400,489	10.2	Atlantic Islands.....	15,795	0.1	38,984	0.3
Lithuania.....	(2)		135,068	1.0	Australia.....	8,938	0.1	10,801	0.1
Finland.....	129,669	1.0	149,824	1.1	All other.....	15,484	0.1	17,727	0.1
Rumania <sup>4</sup> .....	65,920	0.5	102,828	0.7					

<sup>1</sup> Less than one-tenth of 1 per cent

<sup>2</sup> Included in another country or countries

<sup>3</sup> Boundaries changed with loss of territory

<sup>4</sup> Boundaries changed with increase of territory

<sup>5</sup> Excluding possessions of United States in 1920

## No. 32.—URBAN AND RURAL FOREIGN-BORN POPULATION: CONTINENTAL UNITED STATES, 1920, BY COUNTRY OF BIRTH

NOTE.—See Table 37 for explanation of urban and rural segregation

Country of birth	Urban	Rural	Percent urban	Country of birth	Urban	Rural	Percent urban
<b>Total population</b> .....	54,304,603	51,406,017	51.4	<b>E. Europe—Contd</b>			
<b>Total foreign born</b> .....	10,500,942	3,419,750	75.4	Bulgaria.....	7,879	2,598	75.2
<b>Northwestern Europe</b> .....	2,737,407	1,092,687	71.5	Turkey in Europe.....	4,826	458	91.3
England.....	620,676	193,177	76.3	<b>Southern Europe</b> .....	1,607,943	303,270	84.1
Scotland.....	195,614	58,956	76.8	Greece.....	154,052	21,924	87.5
Wales.....	47,716	19,350	71.1	Albania.....	5,156	452	91.9
Ireland.....	900,947	136,287	86.9	Italy.....	1,359,250	250,863	84.4
Norway.....	171,698	192,165	47.2	Spain.....	26,363	13,172	73.4
Sweden.....	394,700	230,885	63.1	Portugal.....	53,122	10,859	75.9
Denmark.....	101,016	88,138	53.4	<b>Other Europe</b> .....	4,523	1,378	76.6
Netherlands.....	74,424	67,342	56.5	Asia.....	170,690	67,260	71.7
Belgium.....	41,710	20,977	66.5	Armenia.....	30,307	6,321	82.7
Luxemburg.....	7,213	5,372	57.3	Palestine.....	2,914	289	91.0
Switzerland.....	67,731	50,928	57.1	Syria.....	45,321	6,580	87.3
France.....	113,962	39,110	74.4	Turkey in Asia.....	9,854	1,165	89.4
<b>Central Europe</b> .....	3,207,139	1,123,735	74.1	China.....	34,635	8,925	79.5
Germany.....	1,137,961	548,147	67.5	Japan.....	40,751	2,208	90.0
Poland.....	961,813	178,166	84.4	India.....	2,693	2,088	54.9
Czechoslovakia.....	240,453	121,985	66.3	Other Asia.....	4,215	1,021	80.5
Austria.....	431,670	143,957	75.0	America.....	1,170,024	556,993	67.7
Hungary.....	317,737	79,546	80.0	Canada—French.....	243,750	64,036	79.2
Yugoslavia.....	117,505	51,934	69.3	Canada—Other.....	591,812	225,327	72.4
<b>Eastern Europe</b> .....	1,845,928	258,045	85.7	Newfoundland.....	12,037	1,212	90.0
Russia.....	1,241,157	159,338	88.6	West Indies <sup>1</sup> .....	72,742	2,208	92.1
Lithuania.....	118,634	16,434	87.8	Mexico.....	229,179	237,239	47.1
Finland.....	79,974	69,850	53.4	<b>Central and South America</b> .....	20,504	2,959	87.4
Rumania.....	93,450	9,307	90.9	All other.....	57,290	16,382	77.8

<sup>1</sup> Except possessions of the United States.

Source of Tables: 31 and 32, Bureau of the Census, Department of Commerce

## No. 34.—FOREIGN-BORN WHITES BY

Division and State	Total foreign-born white, 1920	Northwestern Europe							
		United Kingdom and Ireland				Scandinavia			Netherlands
		England	Scotland	Wales	Ireland	Norway	Sweden	Denmark	
Continental United States.	13,712,754	812,828	254,567	67,066	1,037,253	363,862	625,580	189,154	131,766
New England.....	1,870,654	147,098	47,501	2,999	267,428	8,564	67,286	8,458	2,812
Maine.....	107,349	5,149	2,171	137	5,748	581	2,026	1,065	50
New Hampshire.....	91,233	4,367	1,823	51	7,908	427	1,886	204	177
Vermont.....	44,520	2,197	1,854	549	2,884	106	1,123	155	32
Massachusetts.....	1,077,534	86,895	28,474	1,367	183,171	5,491	38,012	3,629	2,071
Rhode Island.....	173,499	25,782	5,692	245	22,253	545	6,542	365	138
Connecticut.....	376,513	22,708	7,487	650	45,464	1,414	17,697	3,040	444
Middle Atlantic.....	4,612,575	272,752	83,883	29,185	472,319	35,362	83,547	22,991	27,847
New York.....	2,756,112	135,305	37,654	6,763	284,747	27,573	53,025	14,222	13,772
New Jersey.....	738,613	46,781	17,781	1,255	65,971	5,343	10,675	3,704	12,737
Pennsylvania.....	1,387,850	90,666	28,448	21,167	121,601	2,446	19,847	3,065	1,338
East North Central.....	3,223,279	163,892	51,650	15,228	135,147	82,137	165,388	43,018	59,865
Ohio.....	678,697	43,140	12,148	7,772	29,262	1,487	7,266	2,353	2,529
Indiana.....	180,868	8,522	3,707	1,106	7,271	544	4,942	969	2,018
Illinois.....	1,206,951	54,247	19,598	3,444	74,274	27,785	105,577	17,098	14,344
Michigan.....	720,635	47,149	13,175	1,154	16,531	6,888	24,707	7,178	33,499
Wisconsin.....	460,128	10,834	3,022	1,750	7,809	45,433	22,896	15,420	7,473
West North Central.....	1,371,961	53,523	17,196	5,693	49,858	166,280	187,625	61,748	24,399
Minnesota.....	486,164	10,958	3,928	854	10,289	90,188	112,117	16,904	5,380
Iowa.....	225,647	13,036	3,967	1,753	10,686	17,344	22,493	18,020	12,471
Missouri.....	186,026	10,400	2,969	908	15,022	610	4,741	1,688	906
North Dakota.....	131,503	2,287	1,229	120	1,660	38,190	10,543	4,552	903
South Dakota.....	82,391	2,943	832	346	1,954	16,813	8,573	5,983	3,218
Nebraska.....	149,652	6,000	1,695	547	5,422	2,165	18,821	12,338	846
Kansas.....	110,578	7,899	2,576	1,170	4,825	970	10,337	2,263	675
South Atlantic.....	315,920	24,269	7,455	1,773	20,145	2,259	4,418	2,123	1,459
Delaware.....	19,810	1,497	411	44	2,895	65	316	77	37
Maryland.....	102,177	5,095	1,692	499	6,580	536	630	382	214
District of Columbia.....	28,548	2,990	793	106	4,320	219	481	237	127
Virginia.....	30,785	3,752	1,327	163	1,732	491	664	459	335
West Virginia.....	61,906	3,433	998	704	1,459	51	326	121	66
North Carolina.....	7,099	967	446	25	301	70	170	69	115
South Carolina.....	6,401	491	190	10	442	85	133	76	30
Georgia.....	16,186	1,593	530	86	1,112	132	299	127	78
Florida.....	43,008	4,451	1,068	136	1,304	610	1,399	575	357
East South Central.....	71,939	6,060	2,093	455	5,334	450	1,514	531	322
Kentucky.....	30,780	1,863	520	149	3,422	75	214	89	150
Tennessee.....	15,478	1,665	454	143	1,291	63	305	138	58
Alabama.....	17,662	1,942	975	145	809	215	748	191	83
Mississippi.....	8,019	590	144	18	412	97	247	113	31
West South Central.....	459,333	13,327	3,711	763	8,330	2,691	6,320	2,580	1,106
Arkansas.....	13,975	1,137	316	90	676	99	331	180	116
Louisiana.....	44,871	1,819	447	76	2,000	555	522	331	260
Oklahoma.....	39,968	2,686	1,120	319	1,321	297	931	561	176
Texas.....	360,519	7,685	1,828	278	4,333	1,740	4,536	1,508	554
Mountain.....	453,225	44,576	12,966	4,907	19,634	17,400	32,232	17,023	5,252
Montana.....	93,620	8,159	3,279	879	7,260	9,962	7,179	2,990	1,675
Idaho.....	38,963	4,451	1,228	575	1,410	2,482	5,112	2,240	439
Wyoming.....	25,255	2,505	1,439	297	956	651	2,042	936	130
Colorado.....	116,954	9,584	3,357	1,482	6,191	1,525	10,112	2,823	853
New Mexico.....	29,077	888	440	78	434	128	310	115	70
Arizona.....	78,099	2,882	595	192	1,206	337	859	398	69
Utah.....	56,455	14,836	2,310	1,304	1,207	2,109	6,073	6,970	1,980
Nevada.....	14,802	1,271	338	100	970	206	545	551	36
Pacific.....	1,033,868	87,331	28,092	6,065	58,438	48,719	77,250	30,882	8,606
Washington.....	250,035	20,806	7,886	2,040	8,927	30,304	34,793	8,359	3,097
Oregon.....	102,151	7,953	3,609	592	4,203	6,955	10,532	3,602	917
California.....	681,662	58,572	16,597	3,433	45,308	11,460	31,925	18,721	4,592

## COUNTRY OF BIRTH, BY STATES, 1920

Northwestern Europe—Continued			Central Europe						Eastern Europe			Division and State
Belgium and Luxemburg	Switzerland	France	Germany	Poland	Czechoslovakia	Austria	Hungary	Yugoslavia	Russia	Lithuania		
75,271	118,659	152,890	1,686,102	1,139,978	362,436	575,625	397,282	169,437	1,400,489	135,068	U. S.	
4,525	3,763	13,246	51,129	131,378	9,653	23,081	15,187	2,405	147,371	35,361	N. E.	
57	62	344	932	1,717	410	305	72	143	3,763	1,032	Me.	
483	72	288	1,714	3,997	75	389	66	120	3,467	1,017	N. H.	
17	187	197	630	1,726	108	283	264	56	1,333	67	Vt.	
2,530	1,368	7,120	22,113	69,157	2,238	8,098	1,357	950	92,034	20,789	Mass.	
483	211	1,971	3,126	8,158	264	1,307	176	146	8,055	794	R. I.	
456	1,863	3,326	22,614	46,623	6,558	12,699	13,222	990	38,719	11,662	Conn.	
13,945	30,093	55,149	508,226	515,708	123,863	310,844	190,224	48,087	763,891	48,594	M. A.	
5,861	15,053	32,179	295,650	247,519	38,247	151,172	78,374	8,547	529,210	12,121	N. Y.	
2,650	8,165	10,165	92,382	90,419	16,747	36,917	40,470	3,313	73,527	6,246	N. J.	
4,981	6,875	12,805	120,194	177,770	68,869	122,755	71,380	36,227	161,124	30,227	Pa.	
34,799	30,379	29,612	592,058	402,259	143,743	145,275	149,592	72,343	238,022	44,307	E. N. C.	
2,175	9,656	8,056	111,893	67,579	42,121	48,073	73,181	30,377	43,690	4,095	Ohio.	
2,631	2,334	3,247	37,377	17,791	3,941	9,100	9,351	4,471	7,673	1,445	Ind.	
14,640	7,837	11,993	205,491	162,405	66,709	46,457	34,437	19,285	117,899	30,358	Ill.	
10,978	2,755	4,174	86,047	103,926	11,161	22,004	22,607	6,426	45,313	5,475	Mich.	
4,475	7,797	2,142	151,250	50,558	19,811	19,641	10,016	8,784	21,447	2,934	Wis.	
12,005	15,838	11,432	293,035	38,262	50,906	37,504	17,640	18,189	110,768	2,098	W. N. C.	
3,838	2,720	1,803	74,634	18,537	12,626	11,550	4,277	10,697	16,100	741	Minn.	
2,862	2,871	2,125	70,642	2,028	9,150	4,334	747	1,603	7,319	687	Iowa.	
1,253	4,934	3,825	55,776	7,636	4,971	8,676	8,080	2,327	18,769	417	Mo.	
685	506	350	11,960	2,236	2,056	2,519	2,519	199	20,617	32	N. Dak.	
731	761	335	15,674	792	2,819	1,151	585	470	11,193	14	S. Dak.	
852	1,808	858	40,969	4,615	15,818	4,551	810	738	15,718	139	Nebr.	
1,734	2,238	2,136	23,380	2,418	3,466	5,183	622	2,155	12,050	68	Kans.	
1,634	2,348	4,112	40,898	25,432	6,620	12,077	10,698	3,581	48,362	3,245	S. A.	
29	76	198	1,632	3,847	122	615	226	27	2,244	90	Del.	
157	509	818	22,032	12,061	3,553	3,620	1,947	359	24,791	2,206	Md.	
89	358	687	3,382	716	122	525	219	43	5,181	38	D. C.	
129	239	455	2,802	1,103	897	921	1,293	127	5,421	71	Va.	
944	545	633	3,798	5,799	1,549	5,115	6,260	2,802	3,911	717	W. Va.	
18	72	136	703	210	20	149	66	29	932	29	N. C.	
62	31	78	1,079	351	45	206	56	22	1,187	9	S. C.	
52	161	376	1,936	917	123	401	246	84	3,452	72	Ga.	
154	357	731	3,534	428	189	525	383	88	1,243	13	Fla.	
266	2,176	2,191	16,652	2,590	617	2,023	1,829	786	7,408	76	E. S. C.	
102	1,315	984	11,137	1,037	240	906	1,084	354	2,736	56	Ky.	
39	616	333	2,159	841	82	398	326	37	2,262	3	Tenn.	
81	174	616	2,427	394	232	583	372	155	1,582	12	Ala.	
44	71	258	929	318	63	136	47	220	828	5	Miss.	
1,307	3,433	8,071	47,217	7,206	15,438	9,195	1,664	1,267	14,652	219	W. S. C.	
102	736	387	3,979	529	492	636	108	117	662	27	Ark.	
359	378	4,182	5,147	377	302	725	305	312	1,928	23	La.	
341	629	958	7,029	1,253	1,825	1,393	311	218	5,005	132	Okla.	
505	1,690	2,544	31,062	5,047	12,819	6,441	940	620	7,057	37	Tex.	
1,980	6,695	4,965	33,652	4,675	5,295	13,070	3,233	10,771	26,690	280	Mt.	
825	1,151	888	7,873	1,219	1,895	3,298	935	3,782	5,203	80	Mont.	
183	1,347	482	4,143	287	420	781	233	460	1,458	9	Idaho.	
148	302	361	2,292	544	518	1,183	349	1,189	1,482	33	Wyo.	
521	1,510	1,420	11,992	1,867	1,953	5,722	1,157	2,109	16,669	115	Colo.	
82	148	377	1,178	153	113	423	130	535	254	8	N. Mex.	
82	293	394	1,516	261	148	486	210	1,167	816	16	Ariz.	
108	1,566	434	3,589	240	163	987	179	836	684	12	Utah.	
31	378	609	1,069	104	85	190	40	693	124	7	Nev.	
5,260	23,934	24,112	103,235	13,468	6,301	22,556	7,217	12,028	45,327	888	Pac.	
1,753	3,671	2,452	22,315	3,906	1,792	6,494	1,056	3,565	11,124	527	Wash.	
862	4,166	1,273	13,740	1,480	1,132	2,798	909	1,186	6,979	101	Oreg.	
2,645	16,097	20,387	67,180	7,082	3,377	13,264	5,252	7,277	27,224	260	Calif.	

## No. 34.—FOREIGN-BORN WHITES BY COUNTRY

Division and State	Eastern Europe—Continued				Southern Europe				Other Europe <sup>1</sup>
	Finland	Rumania	Bulgaria	Turkey in Europe	Greece	Italy	Spain	Portugal	
<b>Continental United States.</b>	<b>149,824</b>	<b>102,823</b>	<b>10,477</b>	<b>5,284</b>	<b>175,972</b>	<b>1,610,109</b>	<b>49,247</b>	<b>67,453</b>	<b>11,509</b>
<b>New England.</b>	<b>19,543</b>	<b>3,128</b>	<b>214</b>	<b>631</b>	<b>32,188</b>	<b>238,508</b>	<b>2,556</b>	<b>38,428</b>	<b>3,028</b>
Maine.....	1,393	67	5	66	1,228	2,797	33	143	413
New Hampshire.....	1,558	25	8	-----	5,280	2,074	18	115	120
Vermont.....	476	19	3	-----	167	4,067	661	29	10
Massachusetts.....	14,570	1,445	120	451	20,441	117,007	824	28,315	2,047
Rhode Island.....	320	370	45	45	1,219	32,241	87	8,624	153
Connecticut.....	1,226	1,202	33	69	3,851	80,322	1,233	1,200	265
<b>Middle Atlantic.</b>	<b>17,431</b>	<b>55,910</b>	<b>1,336</b>	<b>2,534</b>	<b>44,531</b>	<b>925,222</b>	<b>16,731</b>	<b>2,848</b>	<b>2,568</b>
New York.....	12,504	40,116	614	2,050	26,117	545,173	12,548	1,404	1,257
New Jersey.....	2,109	4,564	66	195	4,521	157,235	2,000	646	224
Pennsylvania.....	2,818	11,230	656	289	13,893	222,764	2,183	798	1,087
<b>East North Central.</b>	<b>46,576</b>	<b>29,338</b>	<b>5,806</b>	<b>1,035</b>	<b>45,135</b>	<b>203,180</b>	<b>3,008</b>	<b>354</b>	<b>3,230</b>
Ohio.....	6,406	13,068	2,535	569	13,540	60,658	1,280	146	733
Indiana.....	2,237	2,731	431	70	4,182	6,712	467	14	149
Illinois.....	3,080	6,238	940	181	16,465	94,407	746	110	675
Michigan.....	30,096	6,331	1,692	179	7,115	30,216	441	67	1,074
Wisconsin.....	6,757	970	208	36	3,833	11,187	74	17	549
<b>West North Central.</b>	<b>31,635</b>	<b>6,950</b>	<b>1,095</b>	<b>124</b>	<b>11,236</b>	<b>34,488</b>	<b>775</b>	<b>56</b>	<b>727</b>
Minnesota.....	29,108	2,385	456	30	2,391	7,432	36	7	190
Iowa.....	107	297	269	18	2,884	4,956	41	14	85
Missouri.....	98	1,647	145	44	3,022	14,609	435	12	278
North Dakota.....	1,108	1,811	31	17	420	176	6	2	25
South Dakota.....	1,085	154	97	5	375	413	5	4	28
Nebraska.....	73	371	61	4	1,504	3,547	38	6	62
Kansas.....	56	285	36	6	640	3,355	214	11	59
<b>South Atlantic.</b>	<b>1,281</b>	<b>2,163</b>	<b>161</b>	<b>203</b>	<b>11,449</b>	<b>40,267</b>	<b>6,523</b>	<b>436</b>	<b>374</b>
Delaware.....	52	110	-----	3	286	4,136	142	18	7
Maryland.....	175	537	18	19	964	9,543	221	21	30
District of Columbia.....	104	86	5	72	1,207	3,764	108	11	25
Virginia.....	240	165	17	32	1,796	2,435	263	95	86
West Virginia.....	289	625	98	32	3,186	14,447	1,540	14	73
North Carolina.....	15	31	1	17	551	453	16	10	7
South Carolina.....	53	26	1	10	578	344	19	6	10
Georgia.....	42	111	5	21	1,473	700	123	39	61
Florida.....	311	472	16	6	1,408	4,745	4,091	222	25
<b>East South Central.</b>	<b>219</b>	<b>441</b>	<b>51</b>	<b>50</b>	<b>2,014</b>	<b>8,584</b>	<b>212</b>	<b>20</b>	<b>112</b>
Kentucky.....	50	192	28	22	401	1,933	68	6	31
Tennessee.....	33	93	5	5	491	2,079	14	6	38
Alabama.....	74	120	18	22	915	2,732	70	4	33
Mississippi.....	62	36	-----	1	207	1,841	60	4	10
<b>West South Central.</b>	<b>465</b>	<b>663</b>	<b>241</b>	<b>101</b>	<b>3,483</b>	<b>27,724</b>	<b>2,495</b>	<b>183</b>	<b>348</b>
Arkansas.....	18	62	17	1	277	1,314	22	4	11
Louisiana.....	147	93	49	14	610	16,264	1,268	100	76
Oklahoma.....	101	65	105	11	619	2,122	124	13	50
Texas.....	189	443	70	75	1,977	8,024	1,081	66	211
<b>Mountain.</b>	<b>7,718</b>	<b>1,053</b>	<b>821</b>	<b>72</b>	<b>9,483</b>	<b>28,497</b>	<b>4,561</b>	<b>332</b>	<b>246</b>
Montana.....	3,577	344	264	28	1,465	3,542	68	30	51
Idaho.....	939	104	39	5	716	1,323	1,416	39	48
Wyoming.....	856	71	72	2	1,236	1,948	139	29	9
Colorado.....	879	304	349	12	1,802	12,579	237	33	54
New Mexico.....	49	8	18	2	288	1,678	198	18	3
Arizona.....	407	51	28	10	329	1,261	1,013	30	14
Utah.....	779	69	30	12	3,029	3,225	250	4	60
Nevada.....	182	12	21	1	618	2,641	1,180	149	5
<b>Pacific.</b>	<b>24,966</b>	<b>3,177</b>	<b>752</b>	<b>534</b>	<b>16,455</b>	<b>103,639</b>	<b>12,066</b>	<b>24,798</b>	<b>872</b>
Washington.....	11,863	422	267	229	4,214	10,813	410	156	168
Oregon.....	6,050	352	214	41	1,928	4,324	553	125	47
California.....	7,053	2,403	271	264	10,313	88,502	11,123	24,517	658

<sup>1</sup> Comprises Albania, Danzig, Fiume, Saar Basin, and "Europe, not specified."<sup>2</sup> Comprises Hedjaz, India, China, Japan, Palestine, and "Asia, not specified."

Source. Bureau of the Census, Department of Commerce.

## OF BIRTH, BY STATES, 1920—Continued

Asia				America						Other countries		All other <sup>1</sup>	Division and State
Armenia	Syria	Turkey in Asia	Other Asia <sup>2</sup>	Canada		Newfoundland	Mexico	West Indies <sup>3</sup>	Central and South America	Atlantic Islands <sup>4</sup>	Australia		
				French	Other								
36,626	51,900	11,014	10,910	307,786	810,092	13,242	478,383	26,369	20,929	38,884	10,801	17,727	U. S.
11,964	11,181	2,266	1,187	240,385	233,971	8,198	203	1,446	1,681	28,484	531	1,292	N. E.
142	627	43	52	35,580	38,570	215	9	81	17	10	23	71	Me.
276	523	60	16	38,277	13,997	182	9	33	31	40	21	39	N. H.
55	228	5	10	14,181	10,687	67	5	12	42	3	5	26	Vt.
8,640	7,128	1,671	513	108,691	153,330	7,165	131	871	1,056	25,230	337	657	Mass.
1,850	1,285	262	87	28,887	7,525	233	7	139	237	2,991	43	97	R. I.
1,001	1,390	225	509	14,769	9,862	336	42	310	298	210	102	402	Conn.
10,808	15,501	4,335	3,507	17,045	120,049	2,772	4,949	11,692	9,650	835	2,188	4,075	M. A.
5,599	8,127	3,200	2,361	15,560	96,414	1,809	2,897	9,532	7,430	569	1,360	2,444	N. Y.
2,275	2,062	440	507	772	9,520	476	406	1,120	1,040	179	317	641	N. J.
2,932	5,312	695	639	713	14,115	487	1,646	1,040	1,180	87	511	990	Pa.
6,157	9,728	2,098	2,695	29,267	222,213	830	6,846	1,289	1,875	261	1,413	4,237	E. N. C.
906	3,680	637	461	1,277	22,899	147	915	533	451	42	232	679	Ohio.
134	717	158	171	406	4,690	44	661	51	80	7	77	239	Ind.
1,715	1,149	502	1,260	4,032	34,343	311	3,854	389	743	195	598	1,240	Ill.
2,498	3,648	663	644	18,635	145,867	245	1,268	239	432	11	397	730	Mich.
904	532	138	159	4,917	14,414	83	148	77	169	6	109	1,349	Wis.
717	3,405	322	559	10,459	69,785	181	22,134	366	729	35	548	1,638	W. N. C.
174	818	100	130	6,796	26,936	56	2,237	56	116	14	104	451	Minn.
101	512	51	91	401	8,528	35	2,560	71	109	8	101	270	Iowa.
181	848	83	130	209	6,204	38	3,222	152	208	5	137	326	Mo.
75	289	21	34	1,533	14,017	20	27	4	39	-----	35	110	N. Dak.
18	265	12	43	508	3,945	3	68	12	27	-----	24	113	S. Dak.
138	414	28	65	351	5,407	20	2,452	38	71	4	80	208	Nebr.
30	259	27	66	571	4,748	9	13,568	33	159	4	67	160	Kans.
402	4,064	456	380	813	12,059	230	600	9,329	812	165	274	573	S. A.
6	2	6	13	23	423	8	50	28	15	1	12	21	Del.
43	72	39	56	117	1,747	61	79	215	176	22	61	130	Md.
63	211	62	46	147	1,541	18	65	114	154	7	25	80	D. C.
164	550	77	77	106	1,817	32	79	94	117	29	41	92	Va.
41	1,235	157	31	54	903	6	74	26	48	3	33	69	W. Va.
10	592	23	44	15	635	7	28	34	36	1	14	32	N. C.
6	396	5	17	24	244	1	14	29	15	6	5	9	S. C.
28	473	49	36	50	905	22	53	89	44	9	26	50	Ga.
41	533	38	60	277	3,844	75	168	8,700	207	87	57	60	Fla.
61	1,501	93	148	179	2,967	32	529	303	181	11	80	198	E. S. C.
20	309	22	40	50	835	13	133	36	36	2	36	85	Ky.
18	127	20	48	47	925	9	167	38	44	2	15	41	Penn.
22	482	39	31	52	840	3	132	201	65	7	21	43	Ala.
1	583	12	29	30	367	7	97	28	36	-----	8	29	Miss.
148	3,438	206	382	590	8,105	100	259,007	824	1,225	55	308	757	W. S. C.
7	213	10	23	58	822	20	259	15	23	4	25	50	Ark.
27	954	61	61	157	1,008	16	2,399	495	844	13	60	107	La.
15	691	21	73	126	2,349	11	6,697	43	67	2	54	104	Okla.
99	1,578	114	225	249	3,926	53	249,652	271	291	36	169	496	Tex.
862	1,324	190	314	3,482	30,185	196	96,502	209	485	154	623	1,117	Mt.
140	192	62	58	2,211	12,105	63	214	25	71	5	81	192	Mont.
13	49	15	31	476	4,478	59	1,125	10	24	23	57	184	Idaho.
62	82	25	22	92	1,346	4	1,786	14	29	7	17	50	Wyo.
46	289	30	103	418	7,203	39	10,894	91	183	8	112	177	Colo.
2	198	5	13	42	690	3	19,906	15	20	2	14	36	N. Mex.
8	327	15	47	90	1,872	16	60,325	41	72	1	81	134	Ariz.
80	174	18	28	45	1,421	4	1,083	8	30	4	221	294	Utah.
11	13	20	12	108	1,070	8	1,169	5	36	104	40	50	Nev.
6,009	1,762	1,048	1,738	5,598	110,758	703	87,613	911	4,311	8,984	4,836	3,840	Pac.
259	318	288	315	2,321	40,407	318	434	100	303	44	610	669	Wash.
63	185	56	95	679	13,095	49	569	58	122	48	213	296	Oreg.
5,687	1,259	704	1,328	2,306	57,256	336	86,610	753	3,886	8,892	4,013	2,875	Calif.

<sup>1</sup> Except possessions of the United States<sup>2</sup> Includes Azores and Cape Verde Islands<sup>3</sup> Comprises Africa, Pacific Islands, country not specified, and at sea.

**No. 35.—CITIZENSHIP OF FOREIGN-BORN WHITES, 21 YEARS AND OVER:  
BY PRINCIPAL COUNTRIES OF BIRTH, CONTINENTAL UNITED STATES, 1920**

Country of birth	Male					Female				
	Total 21 years and over <sup>1</sup>	Citizens		Having first papers	Aliens	Total 21 years and over <sup>1</sup>	Citizens		Having first papers	Aliens
		Num- ber	Per cent				Num- ber	Per cent		
1910, total <sup>2</sup> -----	6, 646, 817	3, 034, 117	45 6	570, 772	2, 266, 555					
1920, total-----	6, 928, 452	3, 314, 910	47 8	1, 116, 744	2, 138, 237	5, 570, 288	2, 893, 787	52 0	77, 532	2, 228, 672
<b>EUROPE</b>										
<b>Northwestern Eu- rope:</b>										
England-----	392, 116	253, 937	64 8	50, 338	55, 148	353, 282	233, 702	66 2	4, 500	83, 301
Scotland-----	122, 568	77, 903	63 6	18, 125	16, 942	108, 966	67, 769	62 2	1, 624	29, 901
Wales-----	34, 806	25, 591	73 5	2, 967	2, 885	29, 429	22, 169	75 3	232	3, 942
Ireland-----	448, 573	324, 100	72 3	43, 995	47, 181	573, 104	350, 821	61 2	8, 269	152, 385
Norway-----	195, 101	131, 322	67 3	29, 223	23, 640	153, 784	106, 710	69 4	2, 684	32, 583
Sweden-----	334, 849	232, 761	69 5	47, 632	37, 257	270, 700	190, 931	70 5	4, 594	58, 039
Denmark-----	109, 754	76, 412	69 6	15, 447	10, 978	71, 044	51, 127	72 0	1, 105	13, 771
Netherlands-----	67, 901	39, 462	58 1	12, 304	12, 135	49, 276	30, 459	61 8	778	14, 743
Belgium and Lux- emburg-----	39, 295	21, 722	55 3	8, 504	6, 515	27, 228	15, 213	55 9	487	9, 573
Switzerland-----	65, 656	42, 623	64 9	7, 915	9, 934	48, 736	32, 885	67 5	744	10, 281
France-----	73, 937	44, 421	60 1	9, 811	13, 567	66, 959	38, 309	57 2	1, 101	20, 856
<b>Central Europe</b>										
Germany-----	873, 231	639, 843	73 3	101, 473	74, 277	775, 653	573, 608	74 0	13, 722	117, 478
Poland-----	602, 918	168, 354	27 9	139, 759	279, 386	445, 132	134, 281	30 2	6, 339	290, 025
Czechoslovakia-----	182, 913	81, 705	44 7	45, 520	49, 119	152, 417	76, 630	50 3	2, 832	65, 694
Austria-----	300, 899	109, 615	36 4	63, 446	114, 712	227, 262	95, 045	41 8	2, 289	116, 891
Hungary-----	196, 093	55, 188	28 1	50, 215	84, 406	157, 699	50, 995	32 3	2, 645	97, 555
Yugoslavia-----	107, 974	23, 140	21 4	27, 687	54, 134	47, 982	15, 676	32 7	836	30, 085
<b>Eastern Europe:</b>										
Russia-----	682, 208	284, 320	41 7	127, 879	246, 604	529, 129	225, 241	42 6	6, 651	274, 844
Lithuania-----	79, 308	20, 254	25 5	16, 186	41, 194	48, 334	12, 979	26 9	544	33, 642
Finland-----	80, 407	31, 550	39 2	17, 466	28, 511	59, 608	27, 323	45 8	1, 047	28, 559
Rumania-----	52, 979	21, 602	40 8	11, 718	17, 949	39, 138	17, 278	44 1	618	19, 616
Bulgaria and Tur- key in Europe-----	12, 530	1, 605	12 8	2, 310	8, 083	2, 035	530	26 0	42	1, 382
<b>Southern Europe:</b>										
Greece-----	135, 207	23, 093	17 1	20, 736	85, 459	26, 308	5, 036	19 1	308	19, 894
Italy-----	858, 111	259, 547	30 2	154, 330	418, 583	550, 822	160, 166	29 1	5, 356	366, 344
Spain-----	31, 540	2, 814	8 9	2, 285	25, 061	9, 896	1, 636	16 5	62	7, 655
Portugal-----	33, 837	5, 854	17 3	2, 274	24, 527	22, 739	4, 211	18 5	120	17, 622
Other Europe-----	7, 916	1, 814	22 9	1, 112	4, 610	2, 573	1, 279	49 7	42	990
<b>ASIA</b>										
Armenia-----	23, 746	6, 604	28 1	4, 419	11, 851	9, 780	3, 349	34 2	144	5, 926
Syria-----	28, 478	8, 821	31 0	5, 610	12, 683	18, 097	5, 236	28 9	262	11, 568
All other Asia-----	13, 539	3, 817	28 2	2, 196	6, 715	5, 314	2, 142	40 3	83	2, 698
<b>AMERICA</b>										
Canada—French-----	141, 514	66, 579	47 0	21, 997	46, 094	132, 662	66, 402	50 1	1, 179	57, 479
Canada—Other and Newfoundland-----	355, 093	205, 794	58 0	44, 267	69, 690	384, 507	248, 783	64 7	4, 671	96, 607
Mexico-----	189, 974	6, 363	3 3	2, 506	172, 127	129, 723	11, 261	8 7	240	112, 995
West Indies <sup>3</sup> -----	11, 690	3, 461	29 6	1, 088	5, 673	9, 969	3, 220	32 3	107	5, 327
Central and South America-----	9, 215	2, 147	23 3	1, 038	5, 052	5, 331	1, 903	35 7	85	2, 725
<b>OTHER COUNTRIES</b>										
Australia-----	5, 370	2, 446	45 5	825	1, 491	4, 352	2, 553	58 7	73	1, 324
Atlantic Islands <sup>4</sup> -----	18, 393	4, 395	23 9	1, 213	12, 209	15, 164	3, 336	22 0	58	11, 289
All other <sup>5</sup> -----	8, 813	3, 871	43 9	938	1, 855	6, 134	3, 593	58 6	59	1, 883

<sup>1</sup> Totals include persons whose citizenship was not reported.

<sup>2</sup> No inquiry as to the citizenship of females prior to 1920.

<sup>3</sup> Except possessions of the United States.

<sup>4</sup> Includes Azores and Cape Verde Islands.

<sup>5</sup> Comprises Africa, Pacific Islands, country not specified, and at sea.

Source Bureau of the Census, Department of Commerce.



# No. 36.—URBAN AND RURAL POPULATION: BY CLASSES AND AGE GROUPS, CONTINENTAL UNITED STATES

NOTE.—For definition of urban and rural population and totals for earlier years, see headnote, Table 37

Class	Number				Per cent distribution			
	Urban		Rural		Urban		Rural	
	1910	1920	1910	1920	1910	1920	1910	1920
Total.....	42, 166, 120	54, 304, 603	49, 806, 146	51, 406, 017	100 0	100 0	100.0	100.0
White.....	39, 379, 294	50, 620, 084	42, 352, 663	44, 200, 831	93 4	93 2	85 0	86 0
Negro.....	2, 684, 797	3, 558, 473	7, 142, 966	6, 903, 658	6 4	6 6	14 3	13 4
All other.....	102, 029	125, 046	310, 517	301, 528	0 2	0 2	0 6	0 6
Native white								
Native parentage.....	17, 621, 230	24, 556, 729	31, 867, 345	33, 865, 228	41 8	45 2	64 0	65.9
Foreign or mixed parentage.....	12, 225, 331	15, 706, 372	6, 672, 506	6, 979, 832	29 0	28.9	13 4	13.6
Foreign-born white.....	9, 532, 733	10, 356, 983	3, 812, 812	3, 355, 771	22 6	19 1	7 7	6.5

  

Class	Sex distribution, 1920					
	Urban			Rural		
	Male	Female	Males per 100 females	Male	Female	Males per 100 females
Total.....	27, 203, 312	27, 101, 291	100 4	26, 697, 119	24, 708, 898	108 0
White.....	25, 373, 627	25, 246, 457	100 5	23, 057, 028	21, 143, 803	109 0
Negro.....	1, 737, 820	1, 821, 653	95 4	3, 471, 616	3, 432, 042	101 2
All other.....	91, 865	33, 181	276 9	168, 475	133, 053	126 6
Native white:						
Native parentage.....	12, 190, 465	12, 366, 264	98 6	17, 446, 316	16, 418, 912	106 3
Foreign or mixed parentage.....	7, 622, 766	8, 083, 606	94 3	3, 642, 786	3, 337, 046	109 2
Foreign-born white.....	5, 560, 396	4, 796, 587	115 9	1, 967, 926	1, 387, 845	141 8

  

Class	Age distribution, 1920					
	Under 5 years	5 to 9 years	10 to 14 years	15 to 19 years	20 to 44 years	45 years and over
URBAN POPULATION						
Total urban.....	5, 275, 751	5, 050, 276	4, 664, 312	4, 445, 963	23, 203, 269	11, 566, 197
Per cent of total <sup>1</sup> .....	9 7	9 3	8 6	8 2	42 7	21.3
Males.....	2, 662, 585	2, 531, 575	2, 313, 652	2, 130, 053	11, 657, 721	5, 845, 617
Females.....	2, 613, 166	2, 518, 701	2, 350, 660	2, 315, 910	11, 545, 548	5, 720, 580
White.....	4, 995, 277	4, 751, 102	4, 368, 076	4, 127, 762	21, 375, 775	10, 917, 249
Negro.....	268, 069	291, 762	291, 094	310, 522	1, 762, 692	621, 935
All other.....	12, 405	7, 412	5, 142	7, 679	64, 802	27, 013
Native white						
Native parentage.....	2, 791, 238	2, 534, 608	2, 333, 029	2, 210, 680	9, 985, 517	4, 639, 820
Foreign or mixed parentage.....	2, 174, 535	2, 096, 478	1, 790, 012	1, 503, 354	5, 689, 320	2, 444, 682
Foreign-born white.....	29, 504	120, 016	245, 035	413, 728	5, 700, 938	3, 832, 747
RURAL POPULATION						
Total rural.....	6, 297, 479	6, 347, 799	5, 976, 825	4, 984, 593	17, 352, 274	10, 397, 183
Per cent of total <sup>1</sup> .....	12 3	12 3	11 6	9 7	33 8	20 2
Males.....	3, 194, 876	3, 221, 426	3, 055, 654	2, 543, 739	8, 898, 244	5, 752, 414
Females.....	3, 102, 603	3, 126, 373	2, 921, 171	2, 440, 854	8, 454, 030	4, 644, 769
White.....	5, 378, 644	5, 336, 143	5, 001, 246	4, 186, 393	15, 011, 393	9, 248, 187
Negro.....	875, 630	974, 445	945, 820	772, 693	2, 233, 391	1, 091, 575
All other.....	43, 205	37, 211	29, 759	25, 507	107, 485	57, 421
Native white.						
Native parentage.....	4, 575, 292	4, 443, 255	4, 122, 680	3, 388, 366	10, 967, 215	6, 338, 088
Foreign or mixed parentage.....	787, 872	843, 020	792, 239	683, 813	2, 546, 535	1, 323, 114
Foreign-born white.....	15, 480	49, 868	86, 327	114, 214	1, 497, 648	1, 586, 985

<sup>1</sup> Per cents based on total for all ages including the small number reported as of unknown age.

Source: Bureau of the Census, Department of Commerce.

## No. 37.—URBAN AND RURAL POPULATION, BY STATES

NOTE.—All incorporated places, and in Massachusetts, Rhode Island, and New Hampshire (prior to 1920, also in other New England States) all towns, having 2,500 inhabitants or more are treated as urban and the remainder of the country as rural. Total urban population of United States, 1880, 14,358,167, 1890, 22,298,359, rural, 1880, 35,797,616, 1890, 40,649,355, per cent urban, 1880, 28.6, 1890, 35.4

Division and State	1900		1910		1920		Per cent urban		
	Urban	Rural	Urban	Rural	Urban	Rural	1900	1910	1920
<b>Continental United States</b>	<b>30,380,433</b>	<b>45,614,142</b>	<b>42,168,120</b>	<b>49,806,146</b>	<b>54,304,603</b>	<b>51,408,017</b>	<b>40.0</b>	<b>45.8</b>	<b>51.4</b>
<b>New England</b>	<b>4,053,427</b>	<b>1,538,590</b>	<b>4,998,082</b>	<b>1,554,599</b>	<b>5,865,073</b>	<b>1,535,836</b>	<b>72.5</b>	<b>78.3</b>	<b>79.2</b>
Maine	232,827	461,639	262,248	480,123	299,569	468,445	33.5	35.3	39.0
New Hampshire	226,069	185,319	255,099	175,473	279,761	163,322	55.0	59.2	63.1
Vermont	75,831	267,810	98,917	257,039	109,976	242,452	22.1	27.8	31.2
Massachusetts	2,567,098	238,248	3,125,367	241,049	3,650,248	202,108	91.5	92.8	94.8
Rhode Island	407,647	20,909	524,654	17,956	589,180	15,217	95.1	96.7	97.5
Connecticut	543,755	364,665	731,797	382,959	936,339	444,292	59.9	65.6	67.8
<b>Middle Atlantic</b>	<b>10,075,893</b>	<b>5,378,795</b>	<b>13,723,373</b>	<b>5,592,519</b>	<b>16,672,595</b>	<b>5,588,549</b>	<b>65.2</b>	<b>71.0</b>	<b>74.9</b>
New York	5,298,111	1,970,783	7,185,494	1,928,120	8,589,844	1,795,383	72.9	78.8	82.7
New Jersey	1,329,162	554,507	1,907,210	629,957	2,474,936	680,964	70.6	75.2	78.4
Pennsylvania	3,448,610	2,853,505	4,630,669	3,034,442	5,607,815	3,112,202	54.7	60.4	64.3
<b>East North Central</b>	<b>7,219,975</b>	<b>8,765,606</b>	<b>9,817,271</b>	<b>8,833,350</b>	<b>13,049,272</b>	<b>8,426,271</b>	<b>45.2</b>	<b>52.7</b>	<b>60.8</b>
Ohio	1,908,382	2,159,163	2,665,143	2,101,978	3,677,136	2,082,258	48.1	55.9	63.8
Indiana	862,689	1,653,773	1,143,835	1,557,041	1,482,555	1,447,535	34.3	42.4	50.6
Illinois	2,616,368	2,205,182	3,476,929	2,161,662	4,403,153	2,082,127	54.3	61.7	67.9
Michigan	952,323	1,468,659	1,327,044	1,483,129	2,241,560	1,426,852	39.3	47.2	61.1
Wisconsin	790,213	1,278,829	1,004,320	1,329,540	1,244,568	1,387,499	38.2	40.7	47.3
<b>West North Central</b>	<b>2,946,544</b>	<b>7,400,879</b>	<b>3,873,718</b>	<b>7,764,205</b>	<b>4,727,372</b>	<b>7,816,877</b>	<b>28.5</b>	<b>33.3</b>	<b>37.7</b>
Minnesota	598,109	1,153,294	850,294	1,225,414	1,051,593	1,335,532	34.1	41.0	44.1
Iowa	572,385	1,659,467	680,054	1,544,717	875,495	1,528,526	25.6	30.6	36.4
Missouri	1,122,104	1,978,561	1,398,817	1,894,518	1,586,903	1,817,152	36.2	45.5	46.6
North Dakota	29,413	295,733	68,236	513,820	88,239	558,633	7.3	11.0	13.6
South Dakota	40,936	360,634	76,673	507,215	101,872	534,675	10.2	13.1	16.0
Nebraska	252,702	813,598	310,852	881,362	405,306	891,066	23.7	26.1	31.3
Kansas	330,903	1,139,592	493,790	1,197,159	617,964	1,151,293	22.5	29.2	34.9
<b>South Atlantic</b>	<b>2,332,632</b>	<b>8,210,848</b>	<b>3,092,153</b>	<b>9,102,742</b>	<b>4,338,792</b>	<b>9,651,480</b>	<b>21.4</b>	<b>25.4</b>	<b>31.0</b>
Delaware	85,717	99,018	97,085	105,237	120,767	102,236	46.4	48.0	54.2
Maryland	591,206	596,838	658,192	637,154	869,422	580,239	49.8	50.8	60.0
District of Columbia	278,718		331,069		437,571		100.0	100.0	100.0
Virginia	340,067	1,514,117	476,529	1,585,083	673,984	1,635,203	18.3	23.1	29.2
West Virginia	126,465	833,335	228,242	992,877	369,007	1,094,694	13.1	18.7	25.2
North Carolina	186,790	1,707,020	318,474	1,887,813	490,370	2,068,753	9.9	14.4	19.2
South Carolina	171,256	1,169,060	224,832	1,290,586	293,987	1,389,737	12.8	14.8	17.5
Georgia	346,382	1,869,949	538,650	2,070,471	727,859	2,167,973	15.6	20.6	25.1
Florida	107,031	421,511	219,080	533,539	355,825	612,645	20.3	29.1	36.7
<b>East South Central</b>	<b>1,181,056</b>	<b>6,416,701</b>	<b>1,574,229</b>	<b>6,835,672</b>	<b>1,894,207</b>	<b>6,899,100</b>	<b>15.0</b>	<b>18.7</b>	<b>22.2</b>
Kentucky	467,668	1,679,506	555,442	1,734,463	633,543	1,783,087	21.8	24.3	26.1
Tennessee	326,639	1,693,977	441,045	1,743,744	611,226	1,726,659	16.2	20.2	26.4
Alabama	216,714	1,611,983	370,431	1,767,662	509,317	1,838,857	11.9	17.3	21.7
Mississippi	120,035	1,431,235	207,311	1,589,803	240,121	1,550,497	7.7	11.5	13.4
<b>West South Central</b>	<b>1,057,197</b>	<b>5,475,093</b>	<b>1,957,456</b>	<b>6,827,073</b>	<b>2,970,829</b>	<b>7,271,395</b>	<b>16.2</b>	<b>22.3</b>	<b>29.0</b>
Arkansas	111,733	1,199,831	202,681	1,731,768	290,497	1,461,707	8.5	12.9	16.6
Louisiana	366,288	1,015,387	496,516	1,159,872	628,163	1,170,346	26.5	30.0	34.9
Oklahoma	58,417	731,974	320,155	1,387,000	539,480	1,488,803	7.4	19.3	26.6
Texas	520,759	2,527,951	938,104	2,958,438	1,512,689	3,150,539	17.1	24.1	32.4
<b>Mountain</b>	<b>541,363</b>	<b>1,133,294</b>	<b>947,511</b>	<b>1,688,006</b>	<b>1,214,980</b>	<b>2,121,121</b>	<b>32.3</b>	<b>36.0</b>	<b>36.4</b>
Montana	84,554	158,775	133,420	242,633	172,011	376,878	34.7	35.5	31.3
Idaho	10,003	151,769	69,898	255,696	119,037	312,529	6.2	21.5	27.6
Wyoming	26,657	95,874	43,221	102,744	57,348	137,054	28.8	29.6	29.5
Colorado	260,651	279,049	404,840	394,184	453,259	486,370	45.3	50.7	48.2
New Mexico	27,381	197,929	46,571	280,730	64,960	295,390	14.0	14.2	13.0
Arizona	19,495	103,436	63,250	141,094	117,527	216,635	15.9	31.0	35.2
Utah	105,427	171,322	172,934	200,417	215,584	233,812	38.1	46.3	48.0
Nevada	7,195	35,140	13,367	68,508	15,254	62,153	17.0	16.3	19.7
<b>Pacific</b>	<b>1,122,356</b>	<b>1,294,336</b>	<b>2,382,329</b>	<b>1,809,975</b>	<b>3,471,483</b>	<b>2,095,388</b>	<b>46.4</b>	<b>56.8</b>	<b>62.4</b>
Washington	211,477	306,626	605,530	536,460	743,735	607,886	40.8	53.0	55.2
Oregon	133,180	280,356	307,060	365,705	391,019	392,370	32.2	45.6	49.9
California	777,699	707,354	1,469,739	907,810	2,331,729	1,095,132	52.4	61.8	68.0

Source: Bureau of the Census, Department of Commerce.

## No. 38.—POPULATION IN PLACES OF 8,000 INHABITANTS OR MORE

Year	Total population	Places of 8,000 inhabitants or more			Year	Total population	Places of 8,000 inhabitants or more		
		Population	Number of places	Per cent of total population			Population	Number of places	Per cent of total population
1790.....	3,929,214	131,472	6	3 3	1860.....	31,443,321	5,072,256	141	16 1
1800.....	5,308,483	210,873	6	4 0	1870.....	38,558,371	8,071,875	220	20 9
1810.....	7,239,881	356,920	11	4 9	1880.....	50,155,783	11,365,698	285	22 7
1820.....	9,638,453	475,135	13	4 9	1890.....	62,947,714	18,244,239	445	29 0
1830.....	12,866,020	864,509	26	6 7	1900.....	75,994,575	25,018,335	547	32 9
1840.....	17,069,453	1,453,994	44	8 5	1910.....	91,972,266	35,570,334	768	38 7
1850.....	23,191,876	2,897,586	85	12 5	1920.....	105,710,620	46,307,640	924	43 8

## No. 39.—DISTRIBUTION OF POPULATION IN GROUPS OF CITIES AND IN RURAL TERRITORY

NOTE.—For definition of urban and rural population see Table 37

Class	1890		1900		1910	
	Number of places	Population	Number of places	Population	Number of places	Population
Total.....		62,947,714		75,994,575		91,972,266
Urban territory.....	1,417	22,298,359	1,801	30,380,433	2,313	42,166,120
Places of 1,000,000 or more.....	3	3,662,115	3	6,429,474	3	8,501,174
Places of 500,000 to 1,000,000.....	1	806,343	3	1,645,087	5	3,010,667
Places of 250,000 to 500,000.....	7	2,447,608	9	2,861,296	11	3,949,839
Places of 100,000 to 250,000.....	17	2,781,894	23	3,272,490	31	4,840,458
Places of 50,000 to 100,000.....	30	2,022,822	40	2,709,338	59	4,178,915
Places of 25,000 to 50,000.....	66	2,268,786	82	2,800,627	11	4,026,045
Places of 10,000 to 25,000.....	238	3,429,247	280	4,338,250	367	5,524,434
Places of 5,000 to 10,000.....	339	2,372,717	468	3,220,766	612	4,254,856
Places of 2,500 to 5,000.....	726	2,506,827	893	3,103,105	1,106	3,879,732
Rural territory.....		40,649,355		45,614,142		49,806,146
Incorporated places of less than 2,500.....	16,490	4,757,974	8,930	6,301,533	11,832	8,169,149
Other rural territory.....		35,891,381		39,312,609		41,636,997

  

Class	1920		Per cent of total population			
	Number of places	Population	1890	1900	1910	1920
Total.....		105,710,620	100 0	100 0	100 0	100 0
Urban territory.....	2,787	54,304,603	55 4	40 0	45 8	51 4
Places of 1,000,000 or more.....	3	10,145,532	5 8	8 5	9 2	9 6
Places of 500,000 to 1,000,000.....	9	6,223,769	1 3	2 2	3 3	5 9
Places of 250,000 to 500,000.....	13	4,540,838	3 9	3 8	4 3	4 3
Places of 100,000 to 250,000.....	43	6,519,187	4 4	4 3	5 3	6 2
Places of 50,000 to 100,000.....	76	5,265,747	3 2	3 6	4 5	5 0
Places of 25,000 to 50,000.....	143	5,075,041	3 6	3 7	4 4	4 8
Places of 10,000 to 25,000.....	459	6,942,742	5 4	5 7	6 0	6 6
Places of 5,000 to 10,000.....	721	4,997,794	3 8	4 2	4 6	4 7
Places of 2,500 to 5,000.....	1,320	4,593,953	4 0	4 1	4 2	4 3
Rural territory.....		51,406,017	64 6	60 0	54 2	48 6
Incorporated places of less than 2,500.....	12,905	8,969,241	7 6	8 3	8 9	8 5
Other rural territory.....		42,436,776	57 0	51 7	45 3	40 1

<sup>1</sup> At the 1890 census incorporated places were not distinguished from unincorporated ones. The figures for that year for incorporated places of less than 2,500 inhabitants have been estimated, assuming that those places were incorporated in 1890 which were returned separately in that year and were returned in 1900 as incorporated, and may include the population of some unincorporated places and exclude that of some incorporated.

Source of Tables 38 and 39 Bureau of the Census, Department of Commerce

## No. 38.—POPULATION IN PLACES OF 8,000 INHABITANTS OR MORE

Year	Total population	Places of 8,000 inhabitants or more			Year	Total population	Places of 8,000 inhabitants or more		
		Population	Number of places	Per cent of total population			Population	Number of places	Per cent of total population
1790.....	3,929,214	131,472	6	3 3	1860.....	31,443,321	5,072,256	141	16 1
1800.....	5,308,483	210,873	6	4 0	1870.....	38,558,371	8,071,875	220	20 9
1810.....	7,239,881	356,920	11	4 9	1880.....	50,155,783	11,365,698	285	22 7
1820.....	9,638,453	475,135	13	4 9	1890.....	62,947,714	18,244,239	445	29 0
1830.....	12,866,020	864,509	26	6 7	1900.....	75,994,575	25,018,335	547	32 9
1840.....	17,069,453	1,453,994	44	8 5	1910.....	91,972,266	35,570,334	768	38 7
1850.....	23,191,876	2,897,586	85	12 5	1920.....	105,710,620	46,307,640	924	43 8

## No. 39.—DISTRIBUTION OF POPULATION IN GROUPS OF CITIES AND IN RURAL TERRITORY

NOTE.—For definition of urban and rural population see Table 37

Class	1890		1900		1910	
	Number of places	Population	Number of places	Population	Number of places	Population
Total.....		62,947,714		75,994,575		91,972,266
Urban territory.....	1,417	22,298,359	1,801	30,380,433	2,313	42,166,120
Places of 1,000,000 or more.....	3	3,662,115	3	6,429,474	3	8,501,174
Places of 500,000 to 1,000,000.....	1	806,343	3	1,645,087	5	3,010,667
Places of 250,000 to 500,000.....	7	2,447,608	9	2,861,296	11	3,949,839
Places of 100,000 to 250,000.....	17	2,781,894	23	3,272,490	31	4,840,458
Places of 50,000 to 100,000.....	30	2,022,822	40	2,709,338	59	4,178,915
Places of 25,000 to 50,000.....	66	2,268,786	82	2,800,627	11	4,026,045
Places of 10,000 to 25,000.....	228	3,429,247	280	4,338,250	367	5,524,434
Places of 5,000 to 10,000.....	339	2,372,717	468	3,220,766	612	4,254,856
Places of 2,500 to 5,000.....	726	2,506,827	893	3,103,105	1,106	3,879,732
Rural territory.....		40,649,355		45,614,142		49,806,146
Incorporated places of less than 2,500.....	16,490	4,757,974	8,930	6,301,533	11,832	8,169,149
Other rural territory.....		35,891,381		39,312,609		41,636,997

  

Class	1920		Per cent of total population			
	Number of places	Population	1890	1900	1910	1920
Total.....		105,710,620	100 0	100 0	100 0	100 0
Urban territory.....	2,787	54,304,603	55 4	40 0	45 8	51 4
Places of 1,000,000 or more.....	3	10,145,532	5 8	8 5	9 2	9 6
Places of 500,000 to 1,000,000.....	9	6,223,769	1 3	2 2	3 3	5 9
Places of 250,000 to 500,000.....	13	4,540,838	3 9	3 8	4 3	4 3
Places of 100,000 to 250,000.....	43	6,519,187	4 4	4 3	5 3	6 2
Places of 50,000 to 100,000.....	76	5,265,747	3 2	3 6	4 5	5 0
Places of 25,000 to 50,000.....	143	5,075,041	3 6	3 7	4 4	4 8
Places of 10,000 to 25,000.....	459	6,942,742	5 4	5 7	6 0	6 6
Places of 5,000 to 10,000.....	721	4,997,794	3 8	4 2	4 6	4 7
Places of 2,500 to 5,000.....	1,320	4,593,953	4 0	4 1	4 2	4 3
Rural territory.....		51,406,017	64 6	60 0	54 2	48 6
Incorporated places of less than 2,500.....	12,905	8,969,241	7 6	8 3	8 9	8 5
Other rural territory.....		42,436,776	57 0	51 7	45 3	40 1

<sup>1</sup> At the 1890 census incorporated places were not distinguished from unincorporated ones. The figures for that year for incorporated places of less than 2,500 inhabitants have been estimated, assuming that those places were incorporated in 1890 which were returned separately in that year and were returned in 1900 as incorporated, and may include the population of some unincorporated places and exclude that of some incorporated.

Source of Tables 38 and 39 Bureau of the Census, Department of Commerce

**No. 42.—POPULATION: MIDYEAR ESTIMATES FOR CITIES HAVING IN 1920 OVER 50,000 INHABITANTS**

NOTE.—Estimates are based, in most cases, on the assumption that the annual increase of population since 1920 has been the same as the annual average increase between 1910 and 1920, except that in States which took a census in 1925 the estimates are based on the average annual increase between 1920 and 1925. Allowance is made for any annexations or detachments of territory that may have taken place and of which the bureau has been advised. Where the last census showed a decrease or where there were exceptional conditions of growth, no estimates were made. For actual enumerations see Table 43. Pending the 1930 census, estimates for 1929 have not been made.

City	1926	1927	1928	City	1926	1927	1928
Albany, N. Y.	119,000	119,500	120,400	Minneapolis, Minn.	434,000	447,700	455,900
Allentown, Pa.	94,600	97,000	99,400	Mobile, Ala.	66,800	67,700	69,600
Altoona, Pa.	67,000	67,800	69,100	Nashville, Tenn.	137,000	137,800	139,600
Atlanta, Ga.	249,000	255,100	255,100	New Britain, Conn.	69,600	71,200	72,800
Atlantic City, N. J.	53,800	54,200	54,700	New Haven, Conn.	182,000	184,900	187,900
Augusta, Ga.	55,700	56,200	56,700	New Orleans, La.	419,000	424,400	429,400
Baltimore, Md.	808,000	819,000	830,100	New York, N. Y.	5,624,000	5,970,800	6,017,600
Bayonne, N. J.	91,000	93,100	95,200	Newark, N. J.	454,000	466,700	473,600
Berkeley, Calif.	67,800	69,400	71,000	Niagara Falls, N. Y.	58,300	60,600	68,300
Bethlehem, Pa.	64,400	66,000	67,600	Norfolk, Va.	174,000	179,200	184,200
Binghamton, N. Y.	72,900	73,900	74,800	Oakland, Calif.	261,000	267,300	274,100
Birmingham, Ala.	211,000	217,500	222,000	Omaha, Nebr.	216,000	219,200	222,800
Boston, Mass.	787,000	793,100	799,200	Pasadena, N. J.	69,800	70,800	71,800
Buffalo, N. Y.	544,000	550,000	555,800	Paterson, N. J.	143,000	143,800	144,000
Cambridge, Mass.	122,000	123,900	126,800	Pawtucket, R. I.	71,000	72,100	73,100
Camden, N. J.	131,000	133,100	135,400	Peoria, Ill.	82,500	83,500	84,500
Canton, Ohio.	110,000	113,300	116,800	Philadelphia, Pa.	2,008,000	2,035,900	2,064,200
Charleston, S. C.	74,100	75,000	75,900	Pittsburgh, Pa.	637,000	665,500	673,800
Chattanooga, Tenn.	72,200	72,900	73,500	Portland, Me.	76,400	77,500	78,600
Chester, Pa.	70,400	72,300	74,200	Portsmouth, Va.	59,900	60,700	61,600
Chicago, Ill.	3,048,000	3,102,800	3,157,400	Providence, R. I.	275,000	280,600	286,300
Cincinnati, Ohio.	411,000	412,200	413,700	Racine, Wis.	69,400	71,300	74,400
Cleveland, Ohio.	960,000	984,500	1,010,300	Reading, Pa.	114,000	114,500	115,400
Columbus, Ohio.	285,000	291,400	299,000	Richmond, Va.	189,000	191,800	194,400
Covington, Ky.	58,500	58,700	59,000	Roanoke, Va.	61,900	63,200	64,600
Dallas, Tex.	203,000	211,600	217,800	Rochester, N. Y.	321,000	324,500	328,200
Dayton, Ohio.	177,000	180,700	184,500	Rockford, Ill.	78,400	80,900	82,800
Denver, Colo.	285,000	289,800	294,200	Sacramento, Calif.	73,400	74,600	75,700
Des Moines, Iowa.	146,000	148,900	151,900	Saginaw, Mich.	73,300	74,400	75,600
Detroit, Mich.	1,290,000	1,334,500	1,378,900	St. Joseph, Mo.	78,400	78,500	78,500
Duluth, Minn.	113,000	114,700	116,800	St. Louis, Mo.	830,000	839,200	848,100
East Orange, N. J.	61,700	63,300	65,000	St. Paul, Minn.	248,000	250,100	-----
East St. Louis, Ill.	72,300	73,100	74,000	Salt Lake City, Utah.	133,000	135,700	138,000
El Paso, Tex.	109,000	113,500	117,800	San Antonio, Tex.	205,000	211,400	218,100
Evansville, Ind.	95,100	96,600	98,100	San Diego, Calif.	110,000	115,300	119,700
Fall River, Mass.	131,000	132,600	134,300	San Francisco, Calif.	567,000	576,000	585,900
Flint, Mich.	136,000	142,700	148,800	Savannah, Ga.	94,900	99,700	99,900
Fort Wayne, Ind.	99,900	103,100	105,300	Schenectady, N. Y.	93,000	93,200	93,300
Fort Worth, Tex.	159,000	163,600	170,600	Seranton, Pa.	143,000	143,900	144,700
Gary, Ind.	80,800	85,200	89,100	Seattle, Wash.	-----	375,300	383,200
Grand Rapids, Mich.	156,000	161,900	164,200	Sioux City, Iowa.	78,000	79,000	80,000
Harrisburg, Pa.	84,600	85,700	86,900	Somerville, Mass.	100,000	101,600	102,700
Hartford, Conn.	164,000	168,300	172,300	South Bend, Ind.	81,700	84,200	86,100
Holyoke, Mass.	60,400	60,400	60,400	Spokane, Wash.	109,000	109,000	109,100
Huntington, W. Va.	65,300	66,900	68,600	Springfield, Ill.	64,700	66,400	67,200
Indianapolis, Ind.	367,000	374,300	382,100	Springfield, Mass.	145,000	147,400	149,800
Jacksonville, Fla.	137,000	138,900	140,700	Springfield, Ohio.	70,200	71,600	73,000
Jersey City, N. J.	318,000	321,500	324,700	Syracuse, N. Y.	185,000	197,000	199,300
Johnstown, Pa.	72,200	73,000	73,700	Tacoma, Wash.	106,000	107,200	110,500
Kansas City, Kans.	117,000	117,500	118,300	Tampa, Fla.	102,000	107,800	113,400
Kansas City, Mo.	375,000	383,100	391,000	Terre Haute, Ind.	71,900	72,700	73,500
Knoxville, Tenn.	98,800	102,100	105,400	Toledo, Ohio.	295,000	305,400	313,200
Lancaster, Pa.	57,100	57,700	58,300	Topeka, Kans.	56,500	61,900	62,800
Lansing, Mich.	73,200	75,600	79,600	Trenton, N. J.	134,000	136,700	139,000
Lawrence, Mass.	93,500	-----	-----	Troy, N. Y.	72,300	72,300	72,300
Lincoln, Nebr.	62,000	69,900	71,100	Tulsa, Okla.	133,000	150,000	170,500
Little Rock, Ark.	75,900	77,500	79,200	Utica, N. Y.	103,000	103,400	104,200
Long Beach, Calif.	97,700	104,200	-----	Washington, D. C.	528,000	540,000	552,000
Louisville, Ky.	104,000	104,800	105,500	Wichita, Kans.	92,500	96,100	96,300
Lynn, Mass.	311,000	320,100	329,400	Wilkes-Barre, Pa.	78,300	90,900	91,900
Macon, Ga.	59,200	60,100	61,200	Wilmington, Del.	124,000	126,400	128,500
Manchester, N. H.	84,000	84,800	85,700	Worcester, Mass.	193,000	195,500	197,600
Memphis, Tenn.	177,000	178,900	190,200	Yonkers, N. Y.	116,000	118,800	121,300
Milwaukee, Wis.	517,000	536,400	544,200	Youngstown, Ohio.	165,000	169,400	174,200

## No. 43.—POPULATION STATISTICS OF CITIES

NOTE.—Per cents show proportion which specified class forms of total population of the city. The

City	Total population					Native white, native parentage		
	1880	1890	1900	1910	1920	Number, 1910	Number, 1920	Per cent, 1920
Akron, Ohio	16,512	27,601	42,728	69,067	208,435	37,793	125,079	60 0
Albany, N. Y.	90,758	94,923	94,151	100,253	113,344	44,472	56,265	49 6
Allentown, Pa.	18,063	25,223	35,416	51,913	73,502	38,368	51,937	70 7
Altoona, Pa.	19,710	30,337	38,973	52,127	60,331	37,740	43,390	71 9
Atlanta, Ga.	37,409	65,533	89,872	154,839	200,616	91,987	124,943	62 3
Atlantic City, N. J.	5,477	13,055	27,838	46,150	50,707	22,410	22,087	43 6
Augusta, Ga.	21,891	33,300	39,441	41,040	52,548	19,861	26,883	51 2
Baltimore, Md.	332,313	434,439	508,957	558,485	733,826	261,474	378,380	51 6
Bayonne, N. J.	9,372	19,033	32,722	55,545	76,754	11,301	14,497	18 9
Berkeley, Calif.	5,193	5,101	13,214	40,434	56,036	19,479	28,669	51 2
Bethlehem, Pa.	5,193	6,762	7,293	12,837	50,358	10,495	26,503	52 6
Binghamton, N. Y.	17,317	35,005	39,647	43,443	66,800	30,490	40,030	59 9
Birmingham, Ala.	3,086	26,178	38,415	132,685	178,806	66,312	92,211	51 6
Boston, Mass.	362,839	448,477	560,892	* 670,585	748,080	157,870	181,811	24 3
Bridgeport, Conn.	27,643	48,866	70,896	102,054	134,555	27,156	35,816	25 6
Brockton, Mass.	13,608	27,294	40,063	56,878	66,254	28,008	24,843	37 2
Buffalo, N. Y.	155,134	255,664	352,387	423,715	506,775	119,692	165,135	32 6
Cambridge, Mass.	52,669	70,023	91,886	104,839	109,694	25,715	29,045	26 5
Camden, N. J.	41,659	53,313	75,935	94,538	116,309	49,581	56,249	48 4
Canton, Ohio	12,258	26,189	30,667	50,217	87,091	29,470	53,783	61 8
Charleston, S. C.	49,984	54,955	55,807	58,833	67,957	20,458	28,262	41 6
Chattanooga, Tenn.	12,892	29,100	30,154	44,604	57,895	23,035	34,911	60 3
Chester, Pa.	14,997	20,226	33,988	38,537	58,030	17,793	25,627	44 2
Chicago, Ill.	503,185	1,099,850	1,698,575	2,185,283	2,701,705	445,139	642,871	23 8
Cincinnati, Ohio	255,139	296,908	325,902	363,591	401,247	154,937	206,605	51 5
Cleveland, Ohio	160,146	261,353	381,768	560,663	796,841	132,314	212,247	26 6
Columbus, Ohio	51,647	88,150	125,560	181,511	237,031	116,846	159,069	67 1
Covington, Ky.	29,720	37,371	42,938	53,270	57,121	31,079	37,391	65 5
Dallas, Tex.	10,368	38,067	42,638	92,104	158,976	59,746	112,509	70 8
Davenport, Iowa	21,831	26,872	35,254	43,028	56,727	17,702	29,394	51 8
Dayton, Ohio	38,678	61,220	85,333	116,577	152,559	72,301	100,966	66 2
Denver, Colo.	35,629	106,713	133,859	213,381	256,491	106,945	144,678	56 4
Des Moines, Iowa	22,408	50,993	62,139	86,368	126,468	53,785	84,361	66 7
Detroit, Mich.	116,340	205,876	285,704	465,706	693,678	115,106	313,997	31 6
Duluth, Minn.	4,838	33,115	52,969	78,466	98,917	15,493	23,931	24 2
East Orange, N. J.			21,506	34,871	50,710	18,253	27,455	54 1
East St. Louis, Ill.	9,185	15,169	29,655	58,547	66,767	30,447	38,854	58 2
El Paso, Tex.	7,736	10,833	15,906	39,279	77,590	15,099	27,456	35 4
Elizabeth, N. J.	28,229	37,764	52,130	73,409	95,783	20,298	25,897	27 0
Elne, Pa.	27,737	40,634	52,733	66,525	93,372	25,740	41,179	44 1
Evansville, Ind.	29,280	50,756	59,007	69,647	85,264	41,945	60,270	70 7
Fall River, Mass.	48,961	74,398	104,863	119,295	120,485	15,858	19,168	15 9
Flint, Mich.	8,409	9,803	13,103	38,550	91,599	21,269	50,186	54 3
Fort Wayne, Ind.	26,880	35,393	45,115	63,933	86,549	36,722	57,675	66 6
Fort Worth, Tex.	6,663	25,076	26,688	73,812	106,482	50,139	75,515	70 9
Gary, Ind.				16,802	55,378	4,480	16,519	29 8
Grand Rapids, Mich.	32,016	60,273	87,565	112,571	137,634	40,777	56,079	40 7
Harrisburg, Pa.	30,762	39,385	50,167	64,186	75,917	49,576	59,268	78 1
Hartford, Conn.	42,015	53,230	79,850	98,915	138,036	31,011	40,327	29 2
Haverhill, Mass.	18,472	27,412	37,175	44,115	53,884	19,472	21,573	40 0
Hoboken, N. J.	30,999	43,648	59,364	70,324	68,166	13,463	14,473	21 2
Holyoke, Mass.	21,915	35,637	45,712	57,730	60,203	9,141	10,994	18 3
Houston, Tex.	15,513	27,657	44,633	78,800	138,276	37,181	72,433	52 4
Huntington, W. Va.	3,174	10,108	11,923	31,161	50,177	27,311	44,720	89 1
Indianapolis, Ind.	75,066	105,435	169,164	233,650	314,194	150,593	219,297	69 8
Jacksonville, Fla.	7,650	17,201	28,429	67,699	91,558	22,628	39,960	43 6
Jersey City, N. J.	120,722	163,003	208,433	267,779	288,103	74,861	87,083	29 2
Johnstown, Pa.	8,380	21,805	35,936	55,432	67,327	26,237	34,207	50 8
Kansas City, Kans.	3,200	38,816	51,418	82,331	101,177	48,021	56,575	55 9
Kansas City, Mo.	55,785	132,716	163,752	248,381	324,410	153,717	209,134	64 5
Knoxville, Tenn.	9,693	22,535	32,637	36,346	77,818	26,300	68,558	81 7
Lancaster, Pa.	25,769	32,011	41,459	47,227	53,150	35,610	45,126	79 3
Lansing, Mich.	8,319	13,102	16,485	31,229	57,327	19,497	38,373	66 9
Lawrence, Mass.	39,151	44,654	62,559	85,892	94,270	11,699	12,325	13 1
Lincoln, Nebr.	13,003	55,154	40,169	43,973	54,948	26,021	33,381	60 8
Little Rock, Ark.	13,138	25,874	38,307	45,941	65,142	24,810	40,851	62 7
Long Beach, Calif.		564	2,252	17,809	55,593	12,526	37,888	68 2
Los Angeles, Calif.	11,183	50,395	102,479	319,198	576,673	169,967	294,458	51 1
Louisville, Ky.	123,758	161,129	204,731	223,928	234,891	113,543	139,403	59 3
Lowell, Mass.	59,475	77,696	94,969	106,294	112,759	20,703	24,678	21 9
Lynn, Mass.	38,274	55,727	68,513	99,336	99,148	33,180	33,988	34 4
Macon, Ga.	12,749	22,746	23,272	40,665	52,995	20,723	27,923	52 7

For footnotes see p. 43.

## HAVING IN 1920 OVER 50,000 INHABITANTS

Increase from Census to Census includes that due to annexation of territory as well as to direct growth

Native white, foreign or mixed parentage			Foreign-born white			Colored 1			Sex, 1920		City
Num- ber, 1910	Num- ber, 1920	Per cent, 1920	Num- ber, 1910	Num- ber, 1920	Per cent, 1920	Num- ber, 1910	Num- ber, 1920	Per cent, 1920	Male	Female	
17, 370	39, 750	19 1	13, 241	37, 889	18 2	663	5, 717	2 7	121, 169	87, 266	Akron.
36, 533	38, 135	33 6	18, 165	17, 636	15 6	1, 082	1, 308	1 2	54, 674	58, 670	Albany
7, 172	12, 767	17 4	6, 234	8, 612	11 7	139	186	0 3	36, 053	37, 449	Allentown.
8, 713	10, 729	17 8	5, 212	5, 312	8 8	462	900	1 5	29, 814	30, 517	Altoona
6, 464	8, 099	4 0	4, 410	4, 738	2 4	51, 978	62, 831	31 3	96, 457	104, 159	Atlanta
7, 421	10, 590	20 9	6, 400	7, 009	13 8	9, 919	11, 021	21 7	24, 223	26, 484	Atlantic City.
1, 899	2, 078	4 0	888	927	1 8	18, 392	22, 660	43 1	25, 299	27, 249	Augusta
134, 870	162, 839	22 2	77, 043	83, 911	11 4	85, 098	108, 696	14 8	361, 560	372, 266	Baltimore
23, 123	36, 103	47 0	20, 522	25, 472	33 2	599	632	0 9	39, 917	36, 837	Bayonne
11, 863	15, 954	28 5	7, 653	9, 573	17 1	1, 439	1, 840	3 3	26, 232	29, 804	Berkeley.
1, 441	12, 546	24 9	797	10, 943	21 7	104	366	0 7	25, 928	24, 430	Bethlehem.
9, 916	15, 742	23 6	7, 389	10, 368	15 5	648	660	1 0	32, 479	34, 321	Binghamton.
8, 357	10, 255	5 7	5, 700	6, 084	3 4	52, 316	70, 256	39 3	89, 015	89, 791	Birmingham.
257, 104	309, 755	41 4	240, 722	238, 919	31 9	14, 889	17, 575	2 3	368, 756	379, 304	Boston.
37, 314	57, 990	40 4	36, 180	46, 414	32 3	1, 404	2, 335	1 6	73, 709	69, 846	Bridgeport.
17, 882	23, 868	36 0	15, 425	17, 124	25 8	563	619	0 9	32, 809	33, 445	Brooklyn.
183, 673	215, 377	42 5	118, 444	121, 530	24 0	1, 906	4, 733	0 9	253, 654	253, 121	Buffalo.
39, 794	43, 101	39 3	34, 608	32, 104	29 3	4, 822	5, 444	5 0	52, 428	57, 266	Cambridge.
23, 128	31, 242	26 9	15, 682	20, 282	17 4	6, 147	8, 556	7 4	59, 212	57, 097	Camden.
11, 798	17, 304	19 9	8, 648	14, 680	16 9	301	1, 324	1 5	47, 188	39, 903	Canton.
4, 902	5, 180	7 6	2, 404	2, 143	3 2	81, 069	32, 372	47 6	32, 750	35, 207	Charleston.
2, 293	2, 850	4 9	1, 332	1, 240	2 1	17, 944	18, 894	3 2	28, 978	28, 917	Chattanooga.
9, 258	13, 908	24 0	6, 673	11, 292	19 5	4, 813	7, 203	12 4	51, 554	26, 476	Chester
912, 701	1, 140, 816	42 2	781, 217	805, 482	29 8	46, 226	112, 536	4 2	1, 369, 917	1, 331, 788	Chicago
132, 150	121, 065	30 3	56, 792	42, 827	10 7	19, 672	30, 150	7 5	194, 342	206, 905	Cincinnati.
223, 908	310, 241	38 9	195, 703	239, 538	30 1	8, 738	34, 815	4 4	413, 398	383, 443	Cleveland.
35, 578	39, 597	16 7	16, 285	16, 055	6 8	12, 802	22, 310	9 4	118, 810	118, 221	Columbus.
15, 346	13, 801	24 2	8, 913	2, 383	5 0	2, 912	3, 046	5 3	27, 461	28, 660	Covington.
9, 078	13, 649	8 6	5, 239	8, 730	5 9	18, 061	24, 088	15 2	79, 469	79, 470	Dallas.
16, 649	18, 991	33 5	8, 101	7, 644	13 5	576	698	1 2	28, 656	28, 071	Davenport.
25, 559	29, 385	19 3	13, 847	13, 111	8 6	4, 870	9, 064	5 9	77, 114	75, 445	Dayton.
61, 185	67, 346	26 3	38, 941	37, 620	14 7	6, 310	6, 847	2 7	131, 906	124, 585	Denver
19, 234	25, 302	20 0	10, 395	11, 224	8 9	2, 954	5, 581	4 4	62, 178	64, 290	Des Moines.
188, 255	348, 771	35 1	156, 565	289, 297	29 1	5, 840	41, 613	4 2	540, 248	453, 430	Detroit.
81, 856	44, 265	44 7	30, 652	30, 118	30 4	465	603	0 6	51, 873	47, 044	Duluth.
8, 506	14, 075	27 8	5, 677	6, 780	13 4	1, 935	2, 400	4 7	23, 256	27, 454	East Orange.
12, 799	13, 668	20 5	9, 400	6, 782	10 2	5, 901	7, 463	11 2	35, 065	31, 702	East St. Louis.
8, 239	14, 995	19 3	14, 248	33, 353	43 0	1, 693	1, 756	2 3	37, 193	40, 367	El Paso
27, 808	39, 608	41 4	23, 894	28, 215	29 5	1, 409	2, 013	2 1	49, 530	46, 253	Elizabeth.
25, 494	34, 047	36 5	14, 943	17, 370	18 6	348	776	0 8	46, 960	46, 412	Erie.
16, 970	15, 437	18 1	4, 462	3, 145	3 7	6, 270	6, 412	7 5	41, 462	43, 802	Evansville
62, 125	58, 615	48 7	50, 874	42, 331	35 1	438	371	0 3	57, 918	62, 567	Fall River.
10, 213	24, 521	26 8	6, 662	15, 127	16 5	406	1, 765	1 9	51, 655	39, 944	Flint
19, 414	20, 764	24 0	7, 204	6, 634	7 7	593	1, 476	1 7	42, 588	43, 961	Fort Wayne.
5, 612	7, 592	7 1	4, 209	7, 359	6 9	13, 352	16, 016	15 0	56, 366	50, 116	Fort Worth.
3, 681	17, 065	30 8	8, 242	16, 480	29 7	399	5, 334	9 6	31, 810	23, 568	Gary.
42, 767	62, 038	37 8	28, 335	28, 355	20 6	692	1, 162	0 8	67, 516	70, 118	Grand Rapids
5, 926	7, 242	9 5	4, 134	4, 144	5 5	4, 550	5, 263	6 9	37, 176	38, 741	Harrisburg.
34, 824	52, 687	38 2	31, 243	40, 667	29 5	1, 837	4, 355	3 2	69, 106	68, 930	Hartford.
13, 061	18, 615	34 5	11, 153	13, 807	24 7	429	389	0 7	26, 490	27, 394	Haverhill
29, 039	29, 945	43 9	27, 668	23, 496	34 5	163	252	0 4	35, 663	32, 603	Hoboken.
25, 286	28, 782	47 8	23, 238	20, 255	33 6	65	172	0 3	28, 901	31, 302	Holyoke.
11, 333	19, 323	14 3	6, 318	12, 012	8 7	23, 968	34, 005	24 6	69, 048	69, 228	Houston
1, 134	6, 118	3 7	514	732	1 5	2, 152	2, 691	5 8	25, 177	25, 000	Huntington.
41, 420	43, 156	13 7	19, 767	16, 958	5 4	21, 870	34, 783	11 1	155, 839	158, 365	Indianapolis.
3, 213	6, 118	6 7	2, 483	3, 894	4 3	29, 370	41, 588	45 4	45, 011	46, 547	Jacksonville.
109, 101	126, 945	42 6	77, 697	75, 981	25 0	6, 120	8, 094	2 7	150, 416	147, 687	Jersey City.
13, 467	19, 307	28 7	15, 816	12, 142	13 8	462	1, 671	2 5	35, 025	32, 302	Johnstown.
14, 631	18, 472	18 3	10, 344	11, 656	11 5	9, 835	14, 474	14 3	51, 798	49, 379	Kansas City.
45, 633	57, 063	17 6	25, 327	27, 320	8 4	23, 704	30, 893	9 5	162, 362	162, 048	Kansas City.
1, 623	2, 141	2 8	783	812	1 0	7, 640	11, 307	14 5	37, 603	40, 215	Knoxville.
7, 602	7, 387	13 9	3, 203	2, 714	5 1	812	923	1 7	25, 033	28, 117	Lancaster.
7, 398	12, 244	21 4	3, 973	5, 985	10 4	361	725	1 3	30, 098	27, 229	Lansing.
32, 553	42, 604	45 2	41, 819	39, 063	41 4	321	278	0 3	46, 881	47, 389	Lawrence.
10, 001	13, 437	24 5	7, 200	7, 198	13 1	751	932	1 7	26, 554	28, 394	Lincoln.
4, 602	5, 008	7 7	1, 973	1, 798	2 8	14, 556	17, 485	26 8	31, 750	33, 392	Little Rock.
3, 086	10, 353	18 6	1, 942	6, 799	12 2	255	553	1 0	26, 153	29, 440	Long Beach.
74, 756	140, 349	24 3	60, 584	112, 057	19 4	13, 891	29, 809	5 2	285, 175	291, 498	Los Angeles.
52, 411	43, 745	18 6	17, 436	11, 621	4 9	40, 538	40, 122	17 1	112, 159	122, 732	Louisville.
41, 942	49, 793	44 2	43, 457	38, 040	33 7	192	250	0 2	54, 271	58, 488	Lowell.
27, 994	36, 361	36 7	27, 344	27, 858	28 1	818	941	0 9	48, 874	50, 274	Lynn.
1, 099	1, 277	2 4	688	698	1 3	18, 155	23, 097	43 6	25, 668	27, 427	Macon.

## No. 43.—POPULATION STATISTICS OF CITIES HAVING

City	Total population					Native white, native parentage		
	1880	1890	1900	1910	1920	Number, 1910	Number, 1920	Per cent, 1920
Manchester, N. H.	32,650	44,126	56,987	70,063	78,384	16,119	18,851	24.0
Memphis, Tenn.	33,592	64,495	102,320	131,105	162,351	59,985	82,795	51.0
Milwaukee, Wis.	115,587	204,468	285,315	373,857	457,147	78,823	130,845	28.6
Minneapolis, Minn.	46,887	164,738	202,718	301,408	380,582	96,186	133,178	35.0
Mobile, Ala.	29,132	31,076	38,469	51,521	60,777	20,944	29,060	47.8
Nashville, Tenn.	43,350	76,168	80,865	110,364	118,342	63,687	74,022	62.5
New Bedford, Mass.	26,845	40,733	62,442	96,652	121,217	18,738	20,098	16.6
New Britain, Conn.	11,800	16,519	25,998	43,916	59,316	8,755	11,161	18.8
New Haven, Conn.	62,882	81,298	108,027	133,605	162,537	37,726	44,401	27.3
New Orleans, La.	216,090	242,039	287,104	339,075	387,219	147,473	190,641	49.2
New York, N. Y. <sup>1</sup>	1,911,698	2,507,414	3,437,202	4,768,889	5,620,048	921,818	1,104,834	20.7
Newark, N. J.	130,508	181,830	246,070	347,469	414,524	94,721	118,413	27.4
Niagara Falls, N. Y.	21,966	34,871	46,624	67,452	50,760	34,471	47,759	40.9
Norfolk, Va.	34,555	48,682	66,960	150,174	216,261	55,198	90,279	41.7
Oakland, Calif.	4,151	10,037	64,205	91,295	47,880	71,446	78.3	7.3
Oklahoma City, Okla.	30,518	140,452	102,555	124,096	191,601	52,917	86,525	45.2
Omaha, Nebr.	6,532	13,028	27,777	54,773	63,841	7,536	8,816	13.8
Passaic, N. J.	51,031	78,347	105,171	125,600	135,875	28,992	31,824	23.4
Pawtucket, R. I.	19,080	27,633	39,231	51,622	64,248	12,627	14,780	23.0
Peoria, Ill.	29,259	41,024	56,100	66,960	76,121	36,615	46,213	60.7
Philadelphia, Pa.	847,170	1,040,964	1,293,697	1,549,008	1,823,779	584,008	698,782	38.3
Pittsburgh, Pa.	235,071	343,904	451,512	533,905	588,343	176,089	216,530	36.8
Portland, Me.	33,810	36,425	50,145	58,571	69,272	31,121	35,969	51.9
Portland, Oreg.	17,577	40,385	90,426	207,214	258,288	104,163	136,216	52.7
Portsmouth, Va.	11,390	13,268	17,427	33,190	54,387	18,203	29,744	49.2
Providence, R. I.	104,857	132,146	175,587	224,326	237,595	59,096	63,728	26.8
Racine, Wis.	16,031	21,014	29,102	38,002	58,593	8,814	17,211	29.4
Reading, Pa.	43,278	58,661	78,961	96,071	107,784	74,714	81,000	75.2
Richmond, Va.	63,600	81,888	85,050	127,628	171,667	69,130	102,056	60.0
Roanoke, Va.	669	16,159	21,495	34,874	50,842	25,089	39,000	76.7
Rochester, N. Y.	89,366	133,896	162,608	218,149	295,750	74,525	111,976	37.9
Rockford, Ill.	13,129	23,584	31,051	45,401	65,651	15,395	24,141	36.8
Sacramento, Calif.	21,420	26,386	29,282	44,696	65,905	19,821	32,696	49.6
Saginaw, Mich.	10,525	46,322	42,345	50,510	61,903	17,257	25,801	41.7
St. Joseph, Mo.	32,431	52,324	102,979	77,403	77,939	50,316	58,531	68.7
St. Louis, Mo.	350,518	451,770	575,238	687,029	772,897	269,836	359,482	46.5
St. Paul, Minn.	41,473	133,156	163,065	214,744	234,698	61,594	77,378	33.0
Salt Lake City, Utah	20,768	44,843	53,531	92,777	118,110	38,152	56,234	47.6
San Antonio, Tex.	20,550	37,673	53,321	96,614	161,379	44,629	76,299	47.7
San Diego, Calif.	2,637	16,159	17,700	39,378	74,683	22,550	41,614	55.6
San Francisco, Calif.	233,985	298,997	347,732	416,912	506,072	115,359	167,179	33.0
Savannah, Ga.	33,605	48,159	54,244	65,064	83,252	22,684	34,420	41.3
Schenectady, N. Y.	13,769	19,902	31,682	72,826	88,723	31,538	35,897	40.5
Scranton, Pa.	45,850	75,215	102,026	129,867	137,783	38,745	48,715	35.4
Seattle, Wash.	8,533	42,837	80,671	237,194	315,312	105,784	139,701	44.3
Sioux City, Iowa	7,366	37,806	33,111	47,828	71,227	22,405	38,751	54.4
Somerville, Mass.	24,933	40,152	61,643	77,236	93,091	29,573	32,289	34.7
South Bend, Ind.	13,280	21,819	35,969	53,684	70,983	22,880	33,915	47.8
Spokane, Wash.	19,922	36,848	104,402	104,437	104,437	54,574	57,324	54.9
Springfield, Ill.	19,743	24,963	34,159	51,678	59,183	27,944	35,255	59.6
Springfield, Mass.	33,340	44,179	62,059	88,926	129,614	35,732	48,945	37.8
Springfield, Ohio	20,730	31,895	38,253	46,921	60,840	30,577	43,037	70.7
Syracuse, N. Y.	51,792	88,143	108,374	137,249	171,717	58,408	80,072	46.6
Tacoma, Wash.	720	36,006	37,714	83,743	96,965	36,481	44,657	48.1
Tampa, Fla.	720	16,532	15,339	37,732	51,608	12,037	17,432	34.0
Terre Haute, Ind.	26,042	30,217	36,673	58,157	66,083	42,586	48,976	74.1
Toledo, Ohio	50,137	81,434	131,822	168,497	243,164	75,147	124,055	51.0
Topeka, Kans.	15,452	31,007	33,608	43,684	50,022	27,800	33,594	67.2
Trenton, N. J.	29,910	57,458	73,307	96,815	119,289	38,679	44,195	37.0
Troy, N. Y.	56,747	60,956	60,651	76,813	72,013	32,224	33,082	45.9
Tulsa, Okla.	1,890	18,182	72,075	14,402	55,660	77.2	35.8	
Utica, N. Y.	33,914	44,007	56,383	74,419	94,156	25,869	33,751	37.8
Washington, D. C. <sup>2</sup>	177,624	230,392	278,718	331,069	437,571	166,711	239,488	54.7
Waterbury, Conn.	17,806	28,646	45,859	73,141	91,715	18,238	22,122	24.1
Wheeling, W. Va.	30,737	34,522	38,878	41,641	50,208	22,385	34,059	60.6
Wichita, Kans.	4,911	23,853	24,671	52,450	72,217	40,738	58,052	80.4
Wilkes-Barre, Pa.	23,339	37,718	51,721	67,105	73,533	24,423	28,709	38.9
Wilmington, Del.	42,478	61,431	76,508	87,411	110,168	44,937	56,868	51.6
Worcester, Mass.	58,291	84,655	118,421	145,986	179,764	41,421	50,716	28.2
Yonkers, N. Y.	18,892	32,033	47,931	78,803	100,176	21,640	30,059	30.0
Youngstown, Ohio	15,435	33,220	44,885	79,066	132,358	25,595	40,459	35.1

<sup>1</sup> Includes Indians, Chinese, Japanese, and other nonwhite<sup>2</sup> Total population for 1910, including South Bethlehem and West Bethlehem Boroughs, now a part of Bethlehem, 32,810, native white of native parentage, 16,498, native white of foreign or mixed parentage, 6,920; foreign-born white, 9,159; Negro, 228, other colored, 5<sup>3</sup> Total population for 1910, including Hyde Park, annexed since 1910, 686,092; native white of native parentage, 163,028, native white of foreign or mixed parentage, 262,908, foreign-born white, 245,164, Negro, 13,651, other colored, 1,341

Source. Bureau of the Census, Department of Commerce.



## POPULATION—PRINCIPAL CITIES

49

IN 1920 OVER 50,000 INHABITANTS—Continued

Native white, foreign or mixed parentage			Foreign-born white			Colored <sup>1</sup>			Sex, 1920		City
Number, 1910	Number, 1920	Per cent, 1920	Number, 1910	Number, 1920	Per cent, 1920	Number, 1910	Number, 1920	Per cent, 1920	Male	Female	
24, 197	31, 939	40 7	29, 692	27, 516	35 1	55	78	0 1	37, 583	40, 801	Manchester.
12, 138	12, 543	7 6	6, 467	5, 775	3 6	52, 515	61, 238	37 7	79, 116	88, 253	Memphis.
182, 530	213, 911	46 8	111, 456	110, 068	24 1	1, 048	2, 323	0 5	228, 614	238, 533	Milwaukee
116, 548	155, 155	40 8	85, 938	88, 032	23 1	2, 736	4, 217	1 1	189, 215	191, 367	Minneapolis.
6, 585	5, 788	9 5	2, 208	2, 006	3 3	22, 784	23, 923	39 4	20, 149	31, 628	Mobile
7, 151	6, 294	5 3	2, 993	2, 387	2 0	36, 533	35, 639	30 1	56, 004	62, 338	Nashville
32, 336	47, 355	39 1	42, 625	48, 689	40 2	2, 953	5, 075	4 2	59, 338	61, 829	New Bedford
17, 037	26, 602	44 8	18, 015	21, 230	35 8	1, 099	3, 223	0 5	30, 859	28, 457	New Britain.
49, 434	67, 729	41 7	42, 784	45, 686	28 1	3, 661	4, 721	2 9	80, 221	82, 316	New Haven.
74, 244	69, 283	17 9	27, 686	25, 992	6 7	89, 672	101, 303	26 2	189, 026	198, 193	New Orleans.
1, 820, 141	2, 303, 082	41 0	1, 927, 703	1, 991, 547	35 4	97, 721	160, 585	2 9	2, 802, 638	2, 817, 410	New York <sup>6</sup>
132, 350	166, 807	40 2	110, 655	117, 003	28 2	9, 727	17, 301	4 2	209, 200	205, 324	Newark
10, 385	18, 874	37 2	12, 064	17, 886	35 2	2, 755	5, 231	1 0	27, 113	23, 647	Niagara Falls.
4, 318	7, 880	6 8	3, 564	6, 587	5 7	25, 099	43, 551	37 6	60, 018	55, 759	Norfolk.
49, 836	68, 563	31 7	36, 822	45, 102	20 9	8, 218	12, 257	5 7	111, 954	104, 307	Oakland
6, 399	7, 048	8 7	3, 214	3, 477	3 8	6, 712	8, 424	9 2	46, 640	44, 655	Oklahoma City.
30, 595	59, 140	30 9	27, 068	35, 381	18 5	4, 516	10, 555	5 5	98, 954	92, 647	Omaha
18, 209	28, 042	43 9	28, 467	26, 365	41 3	561	618	1 0	31, 840	32, 001	Passaic.
50, 179	57, 285	42 2	45, 398	45, 145	33 2	1, 631	1, 621	1 2	67, 248	68, 627	Paterson
20, 767	28, 084	43 7	17, 956	21, 023	32 7	2, 722	3, 600	0 6	31, 158	33, 090	Pawtucket.
19, 936	19, 964	26 2	8, 810	7, 790	10 2	1, 589	2, 154	2 8	37, 910	38, 211	Peoria.
496, 785	591, 471	32 4	332, 578	397, 927	21 8	85, 637	135, 599	7 4	907, 633	916, 146	Philadelphia.
191, 483	213, 465	36 3	140, 436	120, 266	20 4	25, 897	38, 082	6 5	296, 260	292, 083	Pittsburgh
15, 054	19, 692	28 4	12, 078	13, 229	19 1	318	332	0 6	33, 306	35, 966	Portland, Me.
51, 009	69, 631	27 0	43, 780	47, 114	18 2	8, 262	5, 327	2 1	132, 115	126, 173	Portland, Oreg.
2, 242	2, 812	5 2	1, 115	1, 543	2 8	11, 630	23, 288	42 8	28, 002	26, 385	Portsmouth
82, 354	99, 077	41 7	76, 303	68, 951	29 0	5, 703	5, 839	2 5	115, 154	122, 441	Providence
16, 561	24, 858	42 4	12, 509	16, 199	27 6	118	325	0 6	31, 524	27, 069	Racine
11, 750	16, 298	15 1	8, 812	9, 553	8 9	795	933	0 9	53, 198	54, 586	Reading
7, 664	9, 981	5 8	4, 055	4, 637	2 7	46, 749	54, 093	31 5	80, 631	91, 036	Richmond.
1, 086	1, 630	3 2	770	899	1 7	7, 929	9, 343	18 4	25, 037	25, 805	Roanoke
83, 687	110, 792	37 5	58, 993	71, 321	24 1	944	1, 661	0 6	145, 464	150, 256	Rochester
15, 973	23, 641	36 0	13, 828	17, 343	26 4	205	526	0 8	33, 550	32, 101	Rockford
12, 999	18, 638	28 3	8, 885	10, 873	16 5	2, 991	3, 701	5 6	34, 529	31, 379	Sacramento
21, 225	24, 119	39 0	11, 701	11, 605	18 7	327	374	0 6	31, 024	30, 879	Saginaw.
14, 699	13, 758	17 7	8, 113	6, 423	8 2	4, 275	4, 227	5 4	38, 916	39, 023	St Joseph.
246, 946	239, 894	31 0	125, 706	103, 239	13 4	44, 541	70, 282	9 1	383, 402	389, 495	St Louis
93, 938	102, 198	43 5	56, 524	51, 595	22 0	3, 228	3, 527	1 5	117, 368	117, 330	St Paul
34, 284	41, 113	34 8	19, 035	19, 434	16 5	1, 306	1, 329	1 1	58, 697	59, 413	Salt Lake City
23, 765	33, 854	21 0	17, 407	36, 466	22 7	10, 813	14, 580	9 0	80, 782	80, 597	San Antonio
8, 549	17, 746	23 8	7, 366	13, 295	17 8	1, 113	2, 128	2 8	36, 773	37, 910	San Diego
183, 781	182, 643	36 0	130, 874	140, 200	27 7	16, 898	16, 654	3 3	272, 703	233, 973	San Francisco.
5, 818	6, 363	7 6	3, 332	3, 247	3 9	33, 280	39, 222	47 1	40, 511	42, 741	Savannah
22, 324	31, 858	35 9	18, 031	20, 490	23 1	333	478	0 5	44, 857	43, 866	Schenectady.
55, 431	59, 931	43 5	35, 112	28, 568	20 7	67, 549	569	0 4	67, 549	70, 234	Seranton
61, 134	89, 094	28 2	60, 835	73, 875	23 4	9, 441	12, 732	4 0	167, 601	147, 711	Seattle
24, 659	20, 026	28 1	10, 432	11, 215	15 7	312	1, 234	1 7	37, 568	38, 659	Soux City
26, 632	36, 254	39 0	20, 751	24, 182	26 0	280	366	0 4	44, 350	48, 741	Somerville.
16, 725	22, 390	31 5	13, 420	13, 391	18 9	659	1, 287	1 8	36, 214	34, 769	South Bend.
27, 277	29, 230	28 0	21, 220	16, 826	16 1	1, 331	1, 057	1 0	52, 329	52, 108	Spokane
13, 855	14, 803	25 2	6, 900	6, 255	10 6	2, 979	2, 780	4 7	28, 696	30, 487	Springfield
28, 656	46, 604	36 0	22, 999	31, 250	24 1	1, 539	2, 815	2 2	63, 722	65, 892	Springfield
8, 243	8, 005	13 2	3, 156	2, 757	4 5	4, 945	7, 041	11 6	30, 503	30, 337	Springfield.
46, 912	57, 979	33 8	30, 781	32, 321	18 8	1, 148	1, 345	0 8	85, 935	85, 782	Syracuse
23, 877	29, 336	30 3	21, 463	20, 563	21 2	1, 922	2, 409	2 5	51, 601	45, 364	Tacoma.
6, 857	11, 837	22 9	9, 896	10, 666	20 7	8, 992	11, 563	22 4	25, 998	25, 610	Tampa
9, 164	9, 779	14 8	3, 796	3, 667	5 5	2, 611	3, 661	5 5	32, 853	33, 230	Terre Haute.
59, 383	75, 185	30 9	32, 037	38, 145	15 7	1, 930	5, 779	2 4	125, 518	117, 646	Toledo
7, 183	8, 102	16 2	4, 153	4, 000	8 0	4, 548	4, 326	8 6	23, 918	26, 104	Topeka.
20, 209	40, 634	34 1	26, 310	30, 073	25 2	2, 017	4, 387	3 7	60, 639	58, 650	Trenton.
28, 431	26, 896	37 3	15, 432	11, 458	15 9	665	612	8	37, 076	38, 937	Ury.
1, 204	5, 216	7 2	412	2, 025	2 8	2, 154	9, 174	12 7	37, 639	34, 436	Tulsa.
26, 832	36, 756	39 0	21, 305	23, 257	24 7	360	392	0 4	45, 802	45, 354	Utica.
45, 066	58, 824	13 4	24, 351	28, 548	6 5	94, 941	110, 711	25 3	203, 543	234, 028	Wash., D. C. <sup>8</sup>
28, 590	38, 695	42 2	25, 493	29, 894	32 6	815	1, 004	1 1	47, 430	45, 285	Waterbury.
12, 630	14, 720	26 2	5, 418	5, 796	10 3	1, 208	1, 633	2 9	27, 436	28, 772	Wheeling.
6, 383	7, 550	10 5	2, 855	3, 021	4 2	2, 474	3, 594	5 0	36, 659	36, 558	Wichita
25, 928	30, 000	40 6	16, 078	14, 567	19 7	678	557	0 8	36, 339	37, 494	Wilkes-Barre.
19, 694	26, 235	23 8	13, 678	16, 279	14 8	9, 102	10, 786	9 8	56, 180	53, 988	Wilmington
54, 751	74, 257	41 3	48, 492	53, 418	29 7	1, 322	1, 303	0 8	89, 586	90, 168	Worcester.
29, 960	42, 419	42 3	26, 590	25, 700	25 7	1, 613	1, 998	2 0	49, 010	51, 166	Yonkers
26, 654	45, 302	34 2	24, 860	33, 834	25 6	1, 957	6, 763	5 1	70, 770	61, 588	Youngstown.

<sup>4</sup> Excludes Duluth village (population 2,645) which was set apart by act of legislature in 1877, but which again became part of the city in 1887.

<sup>5</sup> Population of town, including city; town and city not returned separately.

<sup>6</sup> Population shown is for New York City as now constituted.

<sup>7</sup> Total population for 1910, including South Omaha, annexed since 1910, 150,355; native white of native parentage, 61,416, native white of foreign or mixed parentage, 48,623, foreign-born white, 34,902, Negro, 5,143; other colored, 271.

<sup>8</sup> Population shown is for District of Columbia, with which the city is now coextensive.

### No. 44.—PERSONS ENGAGED IN GAINFUL OCCUPATIONS: By Sex and Age, CONTINENTAL UNITED STATES

NOTE.—Owing to change in the date of enumeration from April to January and to changes in the wording of the instructions, the number of persons, especially women and children, reported as farm laborers was much less in 1920 than would have been the case if the 1910 method had been followed. The incomparability in this occupation affects materially the figures for the agricultural group as a whole and even for all occupations combined. For discussion see Census of 1920, Vol. IV, pp 12 to 14

Census year and age period	Males, 10 years and over			Females, 10 years and over		
	Total number	In gainful occupations		Total number	In gainful occupations	
		Number	Per cent		Number	Per cent
<b>1910</b>						
10 years and over.....	37,027,558	30,091,564	81.3	34,552,712	8,075,772	23.4
10 to 13 years.....	3,665,779	609,030	16.6	3,593,239	286,946	8.0
14 and 15 years.....	1,798,449	744,109	41.4	1,770,898	350,140	19.8
16 to 20 years.....	4,564,179	3,615,623	79.2	4,632,821	1,847,600	39.9
21 to 44 years <sup>1</sup> .....	17,849,843	17,262,209	96.7	16,331,449	4,302,969	26.3
45 years and over.....	9,149,308	7,860,593	85.9	8,224,305	1,288,117	15.7
<b>1920</b>						
10 years and over.....	42,289,989	33,064,737	78.2	40,449,346	8,549,511	21.1
10 to 13 years.....	4,336,009	258,269	6.0	4,258,863	119,804	2.8
14 and 15 years.....	1,958,976	455,989	23.3	1,943,734	226,806	11.6
16 and 17 years.....	1,902,867	1,103,456	58.0	1,925,264	609,192	31.6
18 and 19 years.....	1,845,246	1,443,968	78.3	1,895,734	802,235	42.3
20 to 24 years.....	4,527,045	4,121,392	91.0	4,749,976	1,809,075	38.1
25 to 44 years.....	10,028,920	15,579,586	97.2	15,249,802	3,417,373	22.4
45 to 64 years.....	9,114,960	8,552,175	93.8	7,915,205	1,352,479	17.1
65 years and over.....	2,483,071	1,492,837	60.1	2,450,144	196,900	8.0
Age unknown.....	92,875	57,075	61.5	55,824	15,647	28.0

<sup>1</sup> Includes persons of unknown age

### No. 45.—PERSONS ENGAGED IN GAINFUL OCCUPATIONS: By Sex, Age, AND PRINCIPAL CLASSES, CONTINENTAL UNITED STATES, 1920

NOTE.—Per cents represent the proportion which persons employed form of the total number of persons of the specified class and age. See headnote, Table 44

Sex and age periods	Native white-native parentage		Native white-foreign or mixed parentage		Foreign-born white		Negro	
	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent
<b>Male</b> .....	16,738,668	75.1	6,237,012	75.2	6,627,997	89.3	3,252,862	81.1
10 to 13 years.....	144,605	5.5	13,150	1.2	3,269	2.6	96,470	19.5
14 and 15 years.....	245,639	20.6	94,260	20.7	19,657	24.7	95,407	42.4
16 and 17 years.....	608,005	53.2	279,938	62.8	72,461	71.6	140,568	68.2
18 and 19 years.....	823,481	75.3	341,770	81.0	102,814	87.3	171,209	83.8
20 to 24 years.....	2,289,446	89.9	925,130	91.2	435,548	95.3	455,308	93.5
25 to 44 years.....	7,726,512	97.0	2,910,176	96.9	3,484,701	98.1	1,376,666	97.3
45 to 64 years.....	4,088,688	93.9	1,508,153	92.6	2,143,433	93.5	767,459	97.2
65 years and over.....	831,465	60.9	160,123	63.1	355,075	52.3	139,476	80.2
Age unknown.....	30,856	52.5	4,312	73.9	11,039	80.4	10,299	76.2
<b>Female</b> .....	3,733,329	17.2	2,110,454	24.8	1,118,463	18.4	1,571,289	38.9
10 to 13 years.....	48,437	1.9	4,356	0.4	1,501	1.2	64,982	13.1
14 and 15 years.....	88,495	7.6	63,294	13.9	14,265	17.7	60,372	25.5
16 and 17 years.....	264,121	23.2	203,981	45.3	56,929	54.9	83,549	37.2
18 and 19 years.....	378,393	34.4	248,415	57.6	72,237	58.6	102,238	43.7
20 to 24 years.....	855,946	32.5	521,017	48.8	177,030	37.7	252,417	44.5
25 to 44 years.....	1,439,249	18.4	774,177	24.6	506,267	18.6	689,933	45.2
45 to 64 years.....	558,202	14.4	271,734	16.7	250,084	13.9	269,955	45.7
65 years and over.....	93,033	6.8	21,686	8.3	38,453	5.9	48,096	27.1
Age unknown.....	7,353	22.0	1,794	33.2	1,697	26.0	4,747	47.5

Source of Tables 44 and 45. Bureau of the Census, Department of Commerce.

**No. 46.—PERSONS 10 YEARS OF AGE AND OVER IN EACH GENERAL DIVISION OF OCCUPATIONS: CONTINENTAL UNITED STATES**

NOTE—See headnote, Table 44

Class of occupation	Both sexes		Males		Females	
	1910	1920	1910	1920	1910	1920
<b>All occupations</b> .....	<b>38, 167, 336</b>	<b>41, 614, 248</b>	<b>30, 091, 564</b>	<b>33, 064, 737</b>	<b>8, 075, 772</b>	<b>8, 549, 511</b>
Agriculture, forestry, and animal husbandry.....	12,659,082	10,953,158	10,851,581	9,869,030	1,807,501	1,084,128
Extraction of minerals.....	1,965,169	1,090,223	1,964,075	1,087,359	1,094	2,864
Manufacturing and mechanical industries.....	10,628,731	12,818,521	8,808,161	10,888,183	1,820,570	1,930,341
Transportation.....	2,637,420	3,063,582	2,530,795	2,850,528	1,106,625	213,054
Trade.....	3,614,670	4,242,979	3,146,582	3,575,187	468,088	667,792
Public service (not elsewhere classified).....	459,291	770,460	445,733	743,666	13,558	21,794
Professional service.....	1,693,361	2,143,889	1,959,470	1,127,891	1,733,891	1,016,498
Domestic and personal service.....	1,772,559	3,404,892	1,241,338	1,217,968	2,531,221	2,186,924
Clerical occupations.....	1,737,053	3,126,541	1,143,829	1,700,425	593,224	1,426,116
<b>Per cent of total</b> .....	<b>100 0</b>	<b>100 0</b>	<b>100 0</b>	<b>100 0</b>	<b>100 0</b>	<b>100 0</b>
Agriculture, forestry, and animal husbandry.....	33 2	26 3	36 1	29 8	22 4	12 7
Extraction of minerals.....	2 5	2 6	3 2	3 3	( <sup>2</sup> )	( <sup>2</sup> )
Manufacturing and mechanical industries.....	27 8	30 8	29 3	32 9	22 5	22 6
Transportation.....	6 9	7 4	8 4	8 6	1 3	2 5
Trade.....	9 5	10 2	10 5	10 8	5 8	7 8
Public service (not elsewhere classified).....	1 2	1 9	1 5	2 3	0 2	0 3
Professional service.....	4 4	5 2	3 2	3 4	9 1	11 9
Domestic and personal service.....	9 9	8 2	4 1	3 7	31 3	25 6
Clerical occupations.....	4 6	7 5	3 8	5 1	7 3	16 7

<sup>1</sup> Figures corrected to conform to 1920 classification

<sup>2</sup> Less than one-tenth of 1 per cent.

**No. 47.—NUMBER ENGAGED IN EACH GENERAL DIVISION OF OCCUPATIONS: BY SEX AND AGE, CONTINENTAL UNITED STATES, 1920**

NOTE—For totals of all ages see Table 46. A few persons of unknown age are omitted. See also headnote Table 44

Class of occupation	Age groups—							
	10 to 13 years	14 and 15 years	16 and 17 years	18 and 19 years	20 to 24 years	25 to 44 years	45 to 64 years	65 years and over
<b>MALE</b>								
<b>All occupations</b> .....	<b>258, 259</b>	<b>455, 989</b>	<b>1, 103, 456</b>	<b>1, 443, 968</b>	<b>4, 121, 392</b>	<b>15, 578, 586</b>	<b>8, 552, 175</b>	<b>1, 492, 837</b>
Agriculture, forestry, and animal husbandry.....	221, 409	237, 829	396, 484	457, 588	1, 134, 649	3, 966, 116	2, 783, 518	662, 046
Extraction of minerals.....	598	6, 447	42, 906	54, 024	143, 920	577, 472	236, 137	22, 356
Manufacturing and mechanical industries.....	6, 737	97, 598	366, 215	475, 401	1, 395, 784	5, 461, 425	2, 685, 508	378, 673
Transportation.....	1, 682	13, 935	60, 989	120, 285	404, 352	1, 503, 895	661, 331	76, 619
Trade.....	16, 369	32, 865	79, 620	104, 222	372, 471	1, 799, 041	1, 020, 498	144, 500
Public service (not elsewhere classified).....	136	949	10, 833	50, 993	114, 931	306, 491	214, 156	47, 415
Professional service.....	325	1, 654	5, 774	17, 792	106, 632	605, 682	328, 893	58, 614
Domestic and personal service.....	4, 880	11, 202	24, 388	32, 940	112, 716	603, 619	357, 849	66, 685
Clerical occupations.....	6, 123	53, 510	116, 247	130, 723	335, 937	755, 845	264, 285	35, 929
<b>FEMALE</b>								
<b>All occupations</b> .....	<b>119, 804</b>	<b>228, 806</b>	<b>609, 192</b>	<b>802, 235</b>	<b>1, 809, 075</b>	<b>3, 417, 373</b>	<b>1, 352, 479</b>	<b>196, 900</b>
Agriculture, forestry, and animal husbandry.....	107, 549	80, 522	81, 427	71, 497	130, 790	337, 087	219, 802	54, 356
Extraction of minerals.....	49	97	304	299	510	1, 125	405	66
Manufacturing and mechanical industries.....	2, 736	78, 266	221, 298	214, 340	382, 765	730, 250	271, 047	26, 986
Transportation.....	217	3, 078	27, 396	39, 966	70, 702	63, 266	7, 660	547
Trade.....	844	13, 290	55, 042	67, 744	138, 915	291, 658	91, 725	7, 408
Public service (not elsewhere classified).....	17	28	94	547	2, 929	12, 096	5, 554	471
Professional service.....	296	1, 190	11, 449	69, 450	298, 827	490, 894	130, 500	10, 976
Domestic and personal service.....	7, 292	30, 632	88, 148	118, 729	302, 226	972, 489	568, 448	93, 135
Clerical occupations.....	804	19, 703	124, 034	219, 663	481, 411	518, 508	57, 338	2, 955

Source of Tables 46 and 47 Bureau of the Census, Department of Commerce.

# No. 48.—PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN GAINFUL OCCUPATIONS: BY STATES

NOTE.—The percentages represent the proportion which persons occupied form of the total population of the given set 10 years of age and over. See also headnote, Table 44

Division and State	Males				Females			
	Number		Per cent		Number		Per cent	
	1916	1920	1910	1920	1910	1920	1910	1920
<b>Continental United States</b> .....	80,091,664	83,094,737	81 3	78 2	8,075,772	8,549,511	23 4	21 1
<b>New England</b> .....	2,139,529	2,363,377	80 7	80 4	775,151	871,015	28 9	29 0
Maine.....	242,175	245,013	78 8	77 9	63,282	64,845	21 3	21 1
New Hampshire.....	143,363	143,525	80 5	79 2	48,340	49,302	27 5	27 3
Vermont.....	115,781	111,585	77 9	77 2	28,308	26,899	20 2	19 2
Massachusetts.....	1,086,767	1,225,163	81 1	80 9	444,301	503,155	31 7	31 6
Rhode Island.....	180,962	194,438	82 5	82 0	70,939	80,562	32 1	32 7
Connecticut.....	370,481	443,653	81 3	81 0	119,981	146,252	27 0	27 1
<b>Middle Atlantic</b> .....	6,380,198	7,122,699	81 1	80 1	1,928,687	2,117,517	24 1	24 1
New York.....	3,020,158	3,367,909	81 0	80 4	983,086	1,135,295	26 7	26 9
New Jersey.....	534,795	1,014,663	81 1	80 8	239,565	295,990	24 0	23 9
Pennsylvania.....	2,525,245	2,740,127	81 3	79 5	605,436	686,232	20 9	20 7
<b>East North Central</b> .....	5,975,363	6,951,808	79 4	78 7	1,282,590	1,584,041	18 2	18 9
Ohio.....	1,572,343	1,891,546	79 8	79 4	346,712	409,970	18 5	18 3
Indiana.....	880,979	931,647	79 5	77 7	155,731	185,385	14 8	16 0
Illinois.....	1,865,422	2,086,800	80 0	78 8	431,356	540,938	20 0	21 3
Michigan.....	926,815	1,228,631	79 6	80 0	186,183	245,383	17 4	18 1
Wisconsin.....	729,804	813,184	76 5	75 8	162,608	182,365	18 6	18 8
<b>West North Central</b> .....	3,758,803	3,815,681	78 2	74 6	690,440	772,315	16 1	16 3
Minnesota.....	689,847	742,947	78 2	75 3	145,605	164,066	19 5	18 4
Iowa.....	694,799	717,377	76 1	73 2	131,514	141,321	15 5	15 2
Missouri.....	1,076,772	1,072,545	80 7	77 4	211,564	244,615	16 8	18 1
North Dakota.....	188,372	178,754	78 3	70 9	29,046	28,328	15 8	13 0
South Dakota.....	190,363	186,885	77 4	72 2	28,714	29,686	14 5	13 3
Nebraska.....	377,811	385,292	76 8	72 9	63,303	71,789	14 6	14 8
Kansas.....	540,639	531,881	77 3	73 8	80,694	92,510	13 0	13 7
<b>South Atlantic</b> .....	3,797,257	4,096,041	83 8	77 5	1,390,472	1,243,958	31 0	23 8
Delaware.....	68,317	73,122	81 5	79 7	17,546	18,102	22 1	20 8
Maryland.....	410,857	466,257	81 0	80 0	130,280	137,221	25 2	28 8
District of Columbia.....	105,044	143,401	79 6	82 6	62,921	92,626	36 0	45 6
Virginia.....	626,868	677,366	81 4	76 4	168,700	156,210	22 0	18 1
West Virginia.....	394,390	433,677	81 6	76 0	54,100	57,439	12 9	11 2
North Carolina.....	674,849	693,155	80 4	75 5	272,990	202,697	34 2	21 9
South Carolina.....	460,794	468,601	86 7	77 6	267,833	205,656	40 0	33 4
Georgia.....	807,185	840,412	85 9	78 6	352,941	288,745	37 3	26 7
Florida.....	248,626	300,050	83 2	77 7	73,161	85,262	27 5	23 3
<b>East South Central</b> .....	2,659,090	2,608,411	85 3	77 9	940,605	702,433	30 7	21 1
Kentucky.....	719,369	719,629	82 3	77 1	147,611	131,403	17 4	14 5
Tennessee.....	682,248	677,988	83 5	76 5	173,298	152,108	21 6	17 2
Alabama.....	683,194	684,348	88 3	79 5	314,330	223,868	40 9	25 8
Mississippi.....	574,279	526,446	88 2	78 7	305,366	194,964	47 6	29 1
<b>West South Central</b> .....	2,760,782	3,049,275	82 8	78 2	746,299	666,973	24 4	17 8
Arkansas.....	510,410	518,754	80 8	77 7	161,993	115,810	29 7	18 2
Louisiana.....	501,574	528,507	81 9	77 2	177,609	152,726	29 6	22 4
Oklahoma.....	590,376	585,834	80 3	73 6	78,263	94,594	14 2	13 2
Texas.....	1,228,422	1,415,180	82 7	76 6	328,444	303,843	24 1	17 8
<b>Mountain</b> .....	967,924	1,077,774	81 7	77 1	140,013	177,220	18 1	15 2
Montana.....	159,896	185,905	84 0	78 9	18,851	28,278	16 6	15 2
Idaho.....	118,050	135,950	80 4	75 5	13,038	17,509	12 8	12 0
Wyoming.....	67,593	72,134	87 5	81 7	6,013	9,402	14 9	15 0
Colorado.....	285,083	303,870	81 3	76 8	53,641	62,587	18 5	17 8
New Mexico.....	106,418	107,090	80 7	74 5	15,079	14,941	13 8	12 1
Arizona.....	77,236	112,193	81 5	78 1	10,589	18,386	16 8	16 4
Utah.....	113,113	127,418	76 9	74 0	18,427	21,783	14 4	13 7
Nevada.....	40,535	38,214	87 3	84 3	4,375	4,334	18 7	17 7
<b>Pacific</b> .....	1,652,818	1,979,671	82 1	79 8	281,515	434,039	19 0	20 4
Washington.....	455,375	485,767	82 4	80 3	66,126	92,900	17 4	18 7
Oregon.....	264,691	267,791	81 5	78 1	40,473	54,492	17 5	18 4
California.....	932,752	1,226,113	82 1	80 0	174,916	286,647	20 1	21 4

Source Bureau of the Census, Department of Commerce.

# No. 49.—MALES 10 YEARS OF AGE AND OVER ENGAGED IN EACH GROUP OF GAINFUL OCCUPATIONS, BY STATES, 1920

NOTE.—For total number of males 10 years of age or over gainfully employed see Table 48

Division and State	Agriculture, forestry, and animal husbandry	Extraction of minerals	Manufacturing and mechanical industries	Transportation	Trade	Public service (not elsewhere classified)	Professional service	Domestic and personal service	Clerical occupations
<b>Continental United States</b>	<b>9,869,030</b>	<b>1,087,359</b>	<b>10,888,183</b>	<b>2,850,528</b>	<b>3,575,187</b>	<b>748,666</b>	<b>1,127,391</b>	<b>1,217,968</b>	<b>1,700,425</b>
<b>New England</b>	<b>247,478</b>	<b>4,843</b>	<b>1,253,098</b>	<b>198,556</b>	<b>274,306</b>	<b>65,022</b>	<b>87,588</b>	<b>92,175</b>	<b>140,363</b>
Maine	75,203	745	97,295	21,402	23,171	5,188	7,212	7,359	7,438
New Hampshire	29,390	404	74,373	11,649	12,203	2,821	4,272	4,248	4,165
Vermont	43,052	1,898	38,257	8,650	9,358	1,685	3,131	2,624	2,930
Massachusetts	55,759	1,195	668,645	117,850	160,831	37,232	50,626	54,294	85,231
Rhode Island	8,084	160	116,670	14,710	22,126	8,383	6,248	7,270	10,787
Connecticut	35,990	441	257,856	30,795	46,617	9,713	16,049	16,380	29,812
<b>Middle Atlantic</b>	<b>639,254</b>	<b>343,032</b>	<b>3,128,524</b>	<b>741,491</b>	<b>900,307</b>	<b>185,584</b>	<b>294,824</b>	<b>340,120</b>	<b>551,563</b>
New York	305,505	7,435	1,406,004	370,154	505,254	98,691	162,195	209,493	303,178
New Jersey	59,200	3,922	516,750	104,616	124,213	34,257	41,913	42,334	87,458
Pennsylvania	274,549	331,675	1,203,770	266,721	270,840	52,636	90,716	88,293	160,927
<b>East North Central</b>	<b>1,587,033</b>	<b>215,637</b>	<b>2,799,796</b>	<b>577,811</b>	<b>781,712</b>	<b>124,802</b>	<b>237,951</b>	<b>235,962</b>	<b>391,104</b>
Ohio	349,997	59,359	857,307	160,339	202,635	31,522	66,016	60,839	103,632
Indiana	286,552	33,276	331,848	77,925	95,511	13,851	30,586	25,732	36,366
Illinois	371,237	90,528	753,458	201,205	290,437	50,041	80,988	89,807	159,099
Michigan	281,562	28,582	562,838	82,530	119,309	19,303	36,863	36,882	60,762
Wisconsin	297,685	3,892	294,345	55,812	73,820	10,085	23,498	22,702	31,345
<b>West North Central</b>	<b>1,642,663</b>	<b>73,995</b>	<b>849,681</b>	<b>332,124</b>	<b>450,368</b>	<b>57,581</b>	<b>124,742</b>	<b>128,032</b>	<b>156,496</b>
Minnesota	298,258	14,975	180,607	64,977	87,761	11,220	24,307	25,482	35,360
Iowa	319,831	14,176	158,173	62,685	86,956	8,774	23,097	21,208	22,477
Missouri	383,195	21,468	280,280	94,113	135,441	17,727	37,110	43,960	59,251
North Dakota	116,467	1,296	17,849	11,510	16,772	1,408	4,907	4,260	4,295
South Dakota	114,259	1,433	24,287	12,041	18,997	1,683	5,505	4,812	3,808
Nebraska	183,030	6,782	76,782	33,796	47,117	5,235	12,733	12,402	13,810
Kansas	227,633	20,260	111,703	53,002	57,324	11,534	17,083	15,908	17,434
<b>South Atlantic</b>	<b>1,797,788</b>	<b>133,843</b>	<b>1,019,013</b>	<b>308,651</b>	<b>340,787</b>	<b>119,639</b>	<b>110,521</b>	<b>117,631</b>	<b>155,813</b>
Delaware	17,161	69	30,853	7,526	6,607	1,493	2,580	2,318	4,615
Maryland	92,745	6,330	171,220	52,951	54,323	21,400	16,971	18,696	31,321
Dist. Columbia	928	79	38,789	14,833	18,558	15,640	12,294	12,402	29,878
Virginia	283,162	16,181	167,771	61,397	56,960	31,321	16,510	20,339	23,785
West Virginia	119,703	102,856	108,031	36,115	29,844	4,128	12,435	8,645	11,920
North Carolina	397,214	1,986	164,367	34,803	46,913	8,619	13,461	13,022	12,770
South Carolina	238,644	621	88,515	20,926	29,805	10,382	8,209	8,884	7,615
Georgia	484,330	2,459	152,663	51,781	67,403	19,164	17,908	20,773	23,931
Florida	108,911	2,962	89,804	28,319	30,374	7,492	10,153	12,552	9,483
<b>East South Central</b>	<b>1,494,091</b>	<b>104,792</b>	<b>454,116</b>	<b>182,267</b>	<b>185,278</b>	<b>34,552</b>	<b>55,462</b>	<b>57,184</b>	<b>60,671</b>
Kentucky	374,428	51,384	121,498	46,972	55,034	16,087	17,344	16,534	20,348
Tennessee	363,798	17,590	128,118	48,734	59,514	7,395	16,132	18,091	18,616
Alabama	381,890	35,564	135,608	40,407	43,561	6,426	13,169	13,467	14,256
Mississippi	373,975	254	68,892	26,154	27,167	4,644	8,817	9,092	7,451
<b>West South Central</b>	<b>1,567,024</b>	<b>82,740</b>	<b>543,527</b>	<b>232,809</b>	<b>277,152</b>	<b>70,896</b>	<b>81,596</b>	<b>94,998</b>	<b>99,038</b>
Arkansas	342,341	5,551	72,109	27,289	33,809	7,754	11,357	10,040	8,535
Louisiana	238,323	7,581	124,707	48,874	46,116	10,033	12,297	18,943	21,681
Oklahoma	292,496	38,190	98,303	39,671	56,206	8,406	17,902	17,776	16,884
Texas	693,862	31,418	247,408	116,476	141,021	44,703	40,040	48,269	51,983
<b>Mountain</b>	<b>413,355</b>	<b>92,851</b>	<b>210,686</b>	<b>105,500</b>	<b>105,644</b>	<b>29,374</b>	<b>39,420</b>	<b>41,522</b>	<b>39,472</b>
Montana	82,772	16,691	30,902	17,957	16,427	2,588	5,926	6,603	5,979
Idaho	71,543	5,129	23,253	10,552	11,875	1,427	4,489	4,270	3,412
Wyoming	25,221	8,767	14,922	9,516	5,345	1,433	2,044	2,785	2,101
Colorado	96,925	23,357	67,677	29,900	39,070	6,538	12,547	13,492	14,864
New Mexico	53,204	7,302	14,142	10,664	7,142	6,353	3,056	3,069	2,158
Arizona	32,917	15,339	21,840	11,276	9,798	8,223	4,229	4,575	3,996
Utah	42,372	10,096	30,917	11,484	13,528	2,285	5,668	4,713	6,355
Nevada	8,401	6,170	6,923	4,151	2,459	527	1,461	2,015	1,107
<b>Pacific</b>	<b>480,394</b>	<b>35,628</b>	<b>638,794</b>	<b>191,819</b>	<b>259,635</b>	<b>61,216</b>	<b>95,337</b>	<b>110,844</b>	<b>106,506</b>
Washington	127,720	8,809	168,556	49,834	55,727	12,471	19,235	21,227	22,173
Oregon	89,692	2,197	81,215	26,826	30,477	4,362	11,201	10,685	11,136
California	262,982	24,620	389,013	115,159	173,431	44,383	64,901	78,432	73,192

Source. Bureau of the Census, Department of Commerce.

# No. 50.—FEMALES 10 YEARS OF AGE AND OVER ENGAGED IN EACH GROUP OF GAINFUL OCCUPATIONS, BY STATES, 1920

NOTE.—For total number of females 10 years of age and over gainfully occupied see Table 48

Division and State	Agriculture, forestry, and animal husbandry	Extraction of minerals	Manufacturing and mechanical industries	Transportation	Trade	Public service (not elsewhere classified)	Professional service	Domestic and personal service	Clerical occupations
<b>Continental United States</b> .....	<b>1, 084, 128</b>	<b>2, 864</b>	<b>1, 930, 341</b>	<b>213, 054</b>	<b>687, 792</b>	<b>21, 794</b>	<b>1, 016, 498</b>	<b>2, 188, 924</b>	<b>1, 426, 118</b>
<b>New England</b> .....	<b>8, 102</b>	<b>10</b>	<b>379, 171</b>	<b>16, 635</b>	<b>55, 164</b>	<b>1, 298</b>	<b>87, 748</b>	<b>168, 266</b>	<b>154, 621</b>
Maine.....	2, 101	3	22, 953	1, 238	4, 368	268	9, 412	16, 698	7, 804
New Hampshire.....	1, 036	2	24, 950	702	2, 458	119	5, 084	9, 816	5, 135
Vermont.....	1, 208	1	6, 415	628	1, 609	166	4, 490	9, 006	3, 376
Massachusetts.....	1, 796	3	219, 253	10, 549	32, 888	544	48, 137	94, 766	95, 219
Rhode Island.....	270	-----	45, 250	1, 194	4, 428	69	5, 833	11, 937	11, 581
Connecticut.....	1, 691	1	60, 350	2, 324	9, 413	132	14, 792	26, 043	31, 506
<b>Middle Atlantic</b> .....	<b>20, 966</b>	<b>884</b>	<b>685, 864</b>	<b>57, 738</b>	<b>174, 657</b>	<b>3, 111</b>	<b>229, 165</b>	<b>494, 899</b>	<b>450, 213</b>
New York.....	9, 269	114	351, 104	33, 420	86, 080	1, 683	126, 569	263, 468	263, 588
New Jersey.....	1, 953	13	111, 825	6, 499	20, 380	367	28, 206	62, 579	64, 168
Pennsylvania.....	9, 764	757	222, 935	17, 819	68, 197	1, 061	74, 390	168, 852	122, 457
<b>East North Central</b> .....	<b>46, 757</b>	<b>601</b>	<b>371, 268</b>	<b>51, 136</b>	<b>161, 934</b>	<b>3, 533</b>	<b>207, 148</b>	<b>378, 861</b>	<b>342, 803</b>
Ohio.....	10, 658	214	102, 075	13, 242	43, 600	732	51, 454	100, 898	87, 097
Indiana.....	7, 454	46	45, 598	6, 043	19, 024	489	26, 247	47, 567	32, 917
Illinois.....	9, 468	116	122, 542	19, 156	57, 967	1, 186	65, 653	125, 404	140, 406
Michigan.....	8, 812	216	55, 687	7, 864	24, 735	650	35, 256	59, 259	53, 004
Wisconsin.....	10, 365	9	46, 466	4, 831	17, 208	476	28, 538	45, 733	29, 739
<b>West North Central</b> .....	<b>46, 590</b>	<b>146</b>	<b>112, 640</b>	<b>26, 705</b>	<b>77, 994</b>	<b>3, 794</b>	<b>151, 545</b>	<b>214, 373</b>	<b>138, 528</b>
Minnesota.....	9, 618	19	28, 395	5, 515	16, 670	554	31, 175	44, 638	32, 482
Iowa.....	7, 293	20	18, 349	4, 630	14, 930	759	32, 894	38, 297	24, 149
Missouri.....	3, 696	48	50, 303	7, 776	23, 452	729	32, 061	70, 125	46, 133
North Dakota.....	3, 429	2	1, 838	952	2, 180	236	8, 111	8, 906	8, 441
South Dakota.....	3, 018	4	1, 995	789	2, 986	330	8, 277	8, 441	3, 846
Nebraska.....	4, 085	1	7, 119	2, 812	7, 746	423	17, 402	18, 837	13, 359
Kansas.....	5, 479	52	9, 841	4, 231	10, 030	708	21, 605	25, 129	15, 435
<b>South Atlantic</b> .....	<b>379, 700</b>	<b>378</b>	<b>190, 655</b>	<b>15, 570</b>	<b>55, 077</b>	<b>2, 812</b>	<b>100, 523</b>	<b>375, 453</b>	<b>123, 790</b>
Delaware.....	533	1	3, 796	419	1, 473	37	1, 655	6, 378	3, 810
Maryland.....	3, 136	7	36, 195	2, 988	11, 784	291	12, 733	48, 538	21, 549
District of Columbia.....	19	-----	5, 716	1, 912	4, 224	430	6, 995	30, 177	43, 153
Virginia.....	18, 605	24	28, 371	2, 220	8, 141	530	17, 832	64, 264	10, 223
West Virginia.....	5, 889	295	9, 000	1, 442	5, 265	213	10, 086	18, 408	6, 841
North Carolina.....	80, 472	4	46, 655	1, 534	5, 982	346	16, 216	43, 627	7, 861
South Carolina.....	126, 991	3	21, 029	1, 006	3, 925	225	9, 647	38, 336	4, 494
Georgia.....	129, 027	7	28, 970	2, 970	9, 129	418	18, 029	86, 123	14, 072
Florida.....	15, 028	37	10, 923	1, 079	5, 154	322	7, 330	39, 602	5, 787
<b>East South Central</b> .....	<b>311, 051</b>	<b>207</b>	<b>69, 291</b>	<b>8, 398</b>	<b>28, 292</b>	<b>1, 506</b>	<b>51, 672</b>	<b>193, 313</b>	<b>38, 703</b>
Kentucky.....	19, 321	87	25, 536	2, 834	9, 814	533	14, 585	44, 227	14, 556
Tennessee.....	36, 336	40	22, 585	2, 716	7, 915	288	14, 494	55, 379	12, 355
Alabama.....	122, 755	75	15, 103	1, 678	6, 528	349	12, 229	57, 345	7, 806
Mississippi.....	132, 639	5	6, 067	1, 170	4, 035	336	10, 364	36, 362	3, 986
<b>West South Central</b> .....	<b>241, 060</b>	<b>329</b>	<b>44, 856</b>	<b>15, 356</b>	<b>42, 557</b>	<b>2, 227</b>	<b>72, 478</b>	<b>189, 858</b>	<b>58, 252</b>
Arkansas.....	66, 310	5	4, 225	1, 437	4, 654	319	9, 061	24, 713	5, 086
Louisiana.....	52, 611	88	14, 437	2, 050	7, 912	332	11, 139	53, 727	10, 430
Oklahoma.....	22, 161	159	5, 482	3, 876	8, 505	562	16, 373	24, 622	12, 854
Texas.....	99, 978	77	20, 712	7, 993	21, 486	1, 014	35, 905	86, 796	29, 882
<b>Mountain</b> .....	<b>13, 803</b>	<b>213</b>	<b>16, 795</b>	<b>6, 017</b>	<b>18, 086</b>	<b>1, 544</b>	<b>36, 949</b>	<b>54, 928</b>	<b>28, 885</b>
Montana.....	2, 248	27	1, 667	966	2, 771	312	6, 708	9, 064	4, 515
Idaho.....	1, 317	3	1, 312	666	1, 957	222	4, 393	4, 930	2, 719
Wyoming.....	824	3	442	341	806	125	2, 107	3, 306	1, 429
Colorado.....	3, 228	25	6, 247	2, 310	6, 660	446	12, 416	19, 526	11, 729
New Mexico.....	1, 829	8	1, 976	318	991	58	3, 108	5, 313	1, 640
Arizona.....	3, 282	98	2, 215	313	1, 516	130	2, 976	5, 600	2, 256
Utah.....	887	21	2, 677	945	3, 015	183	4, 329	5, 458	4, 268
Nevada.....	188	8	259	168	370	68	912	1, 732	629
<b>Pacific</b> .....	<b>16, 079</b>	<b>96</b>	<b>59, 801</b>	<b>15, 499</b>	<b>54, 031</b>	<b>1, 969</b>	<b>79, 270</b>	<b>118, 973</b>	<b>90, 921</b>
Washington.....	3, 806	12	10, 973	3, 562	11, 618	473	17, 097	25, 997	19, 362
Oregon.....	2, 308	6	7, 210	2, 248	6, 445	300	10, 662	14, 567	10, 746
California.....	9, 965	78	41, 618	9, 689	35, 968	1, 196	51, 511	76, 409	60, 213

Source: Bureau of the Census, Department of Commerce.

No. 51.—PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN EACH SPECIFIED OCCUPATION: CONTINENTAL UNITED STATES, 1920

Occupation	Total	Male	Female	Native white	Foreign-born white	Negro
All occupations.....	41, 614, 248	33, 064, 737	8, 549, 511	28, 869, 463	7, 746, 480	4, 824, 151
Agriculture, forestry, and animal husbandry.....	10, 953, 158	9, 869, 030	1, 084, 128	7, 766, 257	931, 561	2, 178, 888
Dairy farmers, farmers, and stock raisers.....	6, 201, 261	5, 947, 425	253, 836	4, 694, 494	555, 047	925, 192
Dairy farm, farm, and stock farm laborers.....	4, 041, 627	3, 248, 712	792, 915	2, 602, 069	217, 643	1, 192, 504
Dairy farm, farm, garden, orchard, etc., foremen.....	93, 048	78, 708	14, 340	80, 389	9, 141	3, 102
Fishermen and oystermen.....	52, 836	52, 457	379	32, 763	12, 811	5, 765
Foresters, forest rangers, and timber cruisers.....	3, 653	3, 651	2	3, 254	379	1
Gardeners, florists, fruit growers, and nurserymen.....	169, 399	160, 116	9, 283	118, 814	37, 709	6, 813
Garden, greenhouse, orchard, and nursery laborers.....	137, 010	127, 589	9, 421	70, 697	38, 834	18, 294
Lumbermen, raftsmen, and woodchoppers.....	205, 315	205, 036	279	125, 442	51, 344	25, 487
Owners and managers of log and timber camps.....	8, 410	8, 397	13	6, 979	1, 268	122
Poultry raisers and poultry-yard laborers.....	18, 715	15, 379	3, 336	14, 016	4, 232	363
All other pursuits.....	21, 884	21, 560	324	17, 940	3, 153	1, 245
Extraction of minerals.....	1, 090, 223	1, 087, 359	2, 864	637, 934	377, 138	73, 229
Foremen, overseers, and inspectors.....	36, 931	36, 923	8	27, 607	8, 702	598
Operators, officials, and managers.....	34, 325	34, 143	182	30, 322	3, 939	26
Coal mine operatives.....	733, 936	732, 441	1, 495	399, 743	278, 615	54, 597
Copper mine operatives.....	36, 054	35, 918	136	13, 116	22, 643	73
Gold and silver mine operatives.....	32, 700	32, 666	34	20, 232	12, 113	86
Iron mine operatives.....	38, 704	38, 605	99	9, 289	24, 065	5, 344
Lead and zinc mine operatives.....	20, 798	20, 749	49	17, 280	3, 220	280
Other and not specified mine operatives.....	20, 591	20, 533	58	12, 097	4, 460	3, 976
Quarry operatives.....	45, 162	45, 084	78	24, 112	14, 675	6, 326
Oil and gas well operatives.....	85, 550	85, 303	247	81, 223	2, 508	1, 703
Salt well and works operatives.....	5, 472	4, 994	478	2, 013	2, 198	220
Manufacturing and mechanical industries.....	12, 818, 524	10, 888, 183	1, 930, 341	8, 274, 827	3, 634, 249	886, 810
Apprentices to building and hand trades.....	73, 953	73, 897	56	60, 100	6, 557	1, 267
Apprentices to dressmakers and milliners.....	4, 326	17	4, 309	3, 459	657	204
Apprentices, other.....	65, 893	60, 532	5, 368	58, 839	6, 153	855
Bakers.....	97, 940	93, 347	4, 593	41, 002	53, 606	3, 164
Blacksmiths, forgemen, and hammermen.....	221, 421	221, 416	5	154, 820	57, 500	8, 886
Boiler makers.....	74, 088	74, 088	-----	55, 150	17, 492	1, 398
Brick and stone masons.....	131, 264	131, 257	7	73, 592	47, 005	10, 609
Builders and building contractors.....	90, 109	90, 030	79	68, 708	19, 922	1, 454
Cabinetmakers.....	45, 511	45, 503	8	20, 818	24, 207	456
Carpenters.....	887, 379	887, 208	171	631, 178	221, 303	34, 243
Compositors, linotypers, and type setters.....	140, 165	128, 859	11, 306	117, 632	20, 833	1, 540
Coopers.....	19, 066	19, 061	5	10, 536	6, 333	2, 191
Dressmakers and seamstresses (not in factory).....	235, 855	336	235, 519	170, 849	37, 707	26, 973
Dyers.....	15, 109	14, 978	131	8, 158	8, 645	298
Electricians.....	212, 964	212, 945	19	186, 190	25, 362	1, 342
Electrotypers, stereotypers, and lithographers.....	13, 716	13, 530	186	11, 128	2, 507	78
Engineers (stationary), cranimen, hoistmen, etc.....	279, 984	279, 940	44	220, 099	53, 279	6, 353
Engravers.....	15, 053	14, 492	561	11, 667	3, 337	45
Files, grinders, buffers, and polishers (metal).....	59, 785	57, 315	2, 470	37, 602	21, 235	936
Firemen (except locomotive and fire department).....	143, 875	143, 862	13	75, 202	45, 293	23, 153
Foremen and overseers (manufacturing).....	307, 413	277, 242	30, 171	237, 725	66, 226	3, 287
Furnacemen, smeltermen, heaters, pourers, etc.....	40, 806	40, 800	6	23, 210	14, 333	3, 236
Glass blowers.....	9, 144	9, 055	89	7, 161	1, 937	45
Jewelers, watchmakers, goldsmiths, and silversmiths.....	39, 592	37, 914	1, 678	25, 788	13, 151	528

No. 51.—PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN EACH SPECIFIED OCCUPATION: CONTINENTAL UNITED STATES, 1920—Continued

Occupation	Total	Male	Female	Native white	Foreign-born white	Negro
<b>Manufacturing and mechanical industries—Continued</b>						
Laborers (n. o s.):						
Building, general, and not specified laborers.....	623, 203	608, 075	15, 128	332, 996	151, 165	134, 828
Chemical and allied industries.....	74, 289	70, 994	3, 295	29, 135	27, 487	17, 486
Fertilizer factories.....	12, 943	12, 808	135	1, 624	1, 688	9, 615
Paint and varnish factories.....	4, 841	4, 677	164	2, 308	2, 012	518
Powder, cartridge, dynamite, fuse, and fireworks factories.....	8, 467	7, 821	646	5, 165	2, 407	879
Soap factories.....	4, 715	4, 346	369	2, 156	2, 220	338
Other chemical factories.....	43, 323	41, 342	1, 981	17, 882	19, 160	6, 136
Cigar and tobacco factories.....	35, 157	21, 295	13, 862	11, 720	2, 087	21, 334
Clay, glass, and stone industries.....	124, 544	120, 215	4, 329	69, 991	35, 698	18, 753
Brick, tile, and terra-cotta factories.....	48, 636	48, 099	537	25, 675	12, 940	10, 094
Glass factories.....	28, 937	26, 461	2, 476	18, 563	6, 859	3, 503
Lime, cement, and artificial stone factories.....	30, 051	29, 884	167	14, 450	11, 629	3, 917
Marble and stone yards.....	5, 084	5, 061	23	2, 871	1, 615	597
Potteries.....	11, 836	10, 710	1, 126	8, 532	2, 655	642
Clothing industries.....	12, 776	6, 414	6, 362	8, 492	2, 847	1, 407
Corset factories.....	771	194	577	558	210	3
Glove factories.....	1, 757	899	858	1, 450	284	21
Hat factories (felt).....	989	825	164	534	421	34
Shirt, collar, and cuff factories.....	2, 708	1, 317	1, 391	2, 018	358	310
Suit, coat, cloak, and overall factories.....	3, 984	2, 219	1, 765	2, 218	844	917
Other clothing factories.....	2, 567	960	1, 607	1, 714	730	122
Food industries.....	159, 535	143, 397	16, 138	81, 813	47, 948	27, 730
Bakeries.....	8, 315	6, 869	1, 446	4, 631	2, 535	1, 139
Butter, cheese, and condensed milk factories.....	15, 190	14, 174	1, 016	12, 217	2, 564	397
Candy factories.....	6, 584	4, 398	2, 186	3, 984	1, 896	699
Fish curing and packing.....	6, 300	5, 261	1, 039	2, 774	1, 008	1, 453
Flour and grain mills.....	18, 121	17, 983	138	12, 190	3, 353	2, 564
Fruit and vegetable canning, etc.....	13, 058	9, 743	3, 315	8, 121	3, 211	913
Slaughter and packing houses.....	59, 548	55, 436	4, 112	22, 219	22, 522	14, 680
Sugar factories and refineries.....	15, 733	15, 414	319	6, 898	7, 024	1, 749
Other food factories.....	16, 686	14, 119	2, 567	8, 779	3, 735	4, 136
Harness and saddle industries.....	1, 885	1, 727	158	1, 480	252	150
Helpers in building and hand trades.....	63, 519	63, 412	107	35, 365	14, 877	13, 223
Iron and steel industries.....	729, 613	717, 022	12, 591	294, 139	328, 800	105, 641
Agricultural implement factories.....	11, 409	11, 292	117	5, 784	4, 812	809
Automobile factories.....	83, 341	80, 874	2, 467	37, 804	39, 031	6, 430
Blast furnaces and steel rolling mills (including tinplate mills).....	258, 830	256, 548	2, 282	82, 815	133, 440	42, 445
Car and railroad shops.....	53, 643	53, 280	363	25, 723	18, 697	8, 958
Ship and boat building.....	69, 196	68, 917	279	28, 828	22, 821	17, 149
Wagon and carriage factories.....	9, 817	9, 594	223	6, 693	1, 832	1, 291
Other iron and steel factories <sup>1</sup> .....	179, 607	173, 734	5, 873	86, 094	77, 819	16, 121
Not specified metal industries.....	63, 770	62, 783	987	20, 398	30, 848	12, 438
Other metal industries.....	67, 887	62, 771	5, 116	30, 202	33, 379	3, 996
Brass mills.....	18, 485	17, 614	871	5, 614	11, 802	1, 065
Clock and watch factories.....	3, 108	1, 929	1, 179	2, 219	866	23
Copper factories.....	10, 963	10, 908	55	3, 019	7, 946	377
Gold, silver, and jewelry factories.....	3, 693	3, 316	377	2, 068	1, 483	92
Lead and zinc factories.....	8, 927	8, 859	68	4, 631	3, 666	615
Tinware, enamelware, etc., factories.....	17, 605	15, 436	2, 169	10, 460	6, 215	919
Other metal factories.....	5, 106	4, 709	397	2, 191	2, 001	905
Lumber and furniture industries.....	320, 613	309, 874	10, 739	170, 246	40, 963	106, 276
Furniture factories.....	35, 272	32, 600	2, 672	24, 100	8, 550	2, 600
Piano and organ factories.....	5, 321	4, 596	725	3, 158	2, 011	151
Saw and planing mills <sup>2</sup> .....	245, 683	241, 334	4, 349	121, 537	25, 077	96, 039
Other woodworking factories.....	34, 337	31, 344	2, 993	21, 451	5, 325	7, 486
Paper and pulp mills.....	52, 263	49, 786	2, 477	31, 947	17, 293	2, 926
Printing and publishing.....	11, 436	8, 886	2, 550	7, 926	2, 550	1, 244
Shoe factories.....	19, 210	14, 194	5, 016	14, 090	4, 775	344
Tanneries.....	27, 480	26, 703	777	12, 487	12, 466	2, 503
<b>Textile industries—</b>						
Carpet mills.....	3, 953	3, 378	575	1, 952	1, 922	79
Cotton mills.....	76, 315	59, 646	16, 669	47, 537	15, 954	12, 816
Knitting mills.....	11, 943	6, 603	5, 340	9, 115	1, 869	957
Lace and embroidery mills.....	944	677	267	578	341	25

<sup>1</sup> Not otherwise specified<sup>2</sup> Includes iron foundries<sup>3</sup> Includes box factories (wood).



No. 51.—PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN EACH SPECIFIED OCCUPATION: CONTINENTAL UNITED STATES, 1920—Continued

Occupation	Total	Male	Female	Native white	Foreign-born white	Negro
<b>Manufacturing and mechanical industries—Continued</b>						
<b>Laborers—Continued</b>						
Textile industries—Continued						
Silk mills	10,080	7,350	2,730	6,728	3,075	277
Textile dyeing, finishing, and printing mills	10,605	9,885	720	5,357	4,713	531
Woolen and worsted mills	22,227	18,238	3,989	10,056	11,811	339
Other textile mills	17,243	14,564	2,679	8,527	6,673	2,023
Other industries	463,891	426,398	37,493	230,551	156,430	86,284
Broom and brush factories	2,800	2,407	393	1,971	560	244
Button factories	1,407	1,093	314	838	534	35
Electric light and power plants	15,417	15,255	162	9,364	3,790	2,243
Electrical supply factories	26,789	23,562	3,227	13,894	11,625	1,247
Gas works	18,845	18,787	58	7,576	7,972	3,288
Leather belt, leather case, etc., factories	3,578	3,274	304	1,427	1,897	254
Liquor and beverage industries	10,530	10,205	235	5,011	3,898	1,386
Paper-box factories	3,384	2,401	983	2,319	916	148
Petroleum refineries	31,795	31,566	229	16,160	10,828	4,707
Rubber factories	51,467	47,515	3,952	28,782	20,856	1,817
Straw factories	577	513	64	293	254	30
Other and not specified industries	297,302	269,730	27,572	132,886	93,302	70,625
Loom fixers	15,961	15,958	3	8,749	7,182	29
Machinists, millwrights, and tool-makers	894,662	894,654	8	665,875	218,049	10,286
Machinists	801,901	801,896	5	599,630	192,090	9,753
Millwrights	37,669	37,669	—	27,345	9,938	375
Toolmakers and die setters and sinkers	55,092	55,089	3	38,900	16,021	158
<b>Managers and superintendents (manufacturing)</b>	201,721	196,771	4,950	173,161	28,316	163
Manufacturers and officials	231,615	223,289	8,326	158,428	72,718	354
Mechanics (n. o. s.)	281,741	281,650	51	232,319	39,826	9,290
Millers (grain, flour, feed, etc.)	23,272	23,265	7	20,554	2,339	367
Milliners and millinery dealers	73,255	3,657	69,598	60,710	11,944	590
Molders, foundries, and casters (metal)	123,681	123,668	13	66,664	50,343	6,634
Oilers of machinery	24,612	24,568	44	16,772	6,777	1,027
Painters, glaziers, and varnishers (building)	248,497	248,394	103	177,076	63,281	8,034
Painters, glaziers, enamelers, etc. (factory)	74,535	71,303	3,232	51,984	21,107	1,998
Paper hangers	18,740	18,338	402	14,043	3,745	94
Pattern and model makers	27,720	27,663	57	21,162	6,509	48
Plasterers and cement finishers	45,876	45,870	6	25,790	12,979	7,082
Plumbers and gas and steam fitters	206,718	206,715	3	170,034	33,107	3,516
Pressmen and plate printers (printing)	18,683	18,683	—	16,416	2,156	101
Rollers and roll hands (metal)	25,061	25,061	—	15,924	8,390	736
Roofers and slaters	11,378	11,378	—	7,970	2,795	609
Sawyers	33,809	33,800	9	26,609	4,367	2,755
<b>Semiskilled operatives (n. o. s.)</b>	50,341	32,072	18,269	36,143	11,892	2,253
Chemical and allied industries	1,407	1,352	55	616	185	603
Fertilizer factories	5,521	4,686	835	3,673	1,631	216
Paint and varnish factories	7,379	4,811	2,568	5,567	1,635	151
Powder, cartridge, dynamite, fuse, and fireworks factories	6,288	3,289	3,049	4,618	1,545	121
Sole shoe factories	29,746	17,984	11,762	21,669	6,896	1,162
Other chemical factories	145,222	61,262	83,960	86,372	38,923	19,840
Cigar and tobacco factories	85,434	72,269	13,165	62,113	19,607	3,551
Clay, glass, and stone industries	9,987	9,357	630	6,327	2,656	1,004
Brick, tile, and terra-cotta factories	44,831	37,036	7,795	34,464	8,851	1,506
Glass factories	7,633	7,426	207	4,380	2,616	625
Lime, cement, and artificial-stone factories	5,546	5,478	68	3,138	2,191	217
Marble and stone yards	17,437	12,372	5,065	13,804	3,383	199
Potteries	409,361	143,718	265,643	218,816	176,409	13,888
Clothing industries	12,642	1,115	11,527	9,905	2,090	47
Corset factories	23,357	6,584	16,773	18,475	4,772	99
Glove factories	21,178	14,716	6,462	13,699	7,804	173
Hat factories (felt)	52,377	10,361	42,016	39,873	10,981	1,431
Shirt, collar, and cuff factories	143,872	79,357	64,515	53,435	83,075	7,287
Suit, coat, cloak, and overall factories	155,935	31,585	124,350	83,429	67,587	4,851
Other clothing factories						

1 Not otherwise specified.

No. 51.—PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN EACH SPECIFIED OCCUPATION: CONTINENTAL UNITED STATES, 1920—Continued

Occupation	Total	Male	Female	Native white	Foreign-born white	Negro
<b>Manufacturing and mechanical industries—Continued.</b>						
Semiskilled operatives—Continued						
Food industries.....	188,895	116,493	72,402	122,408	50,057	15,792
Bakeries.....	20,441	8,858	11,583	15,307	4,396	723
Butter, cheese, and condensed-milk factories.....	18,841	16,096	2,745	14,983	3,660	190
Candy factories.....	52,281	20,913	31,368	37,924	12,892	1,405
Fish curing and packing.....	7,586	4,363	3,223	2,972	1,069	3,191
Flour and grain mills.....	8,112	7,524	588	6,105	1,503	504
Fruit and vegetable canning, etc.....	10,204	3,898	6,306	7,267	2,335	494
Slaughter and packing houses.....	49,991	41,906	8,085	23,941	18,499	7,554
Sugar factories and refineries.....	3,806	3,144	662	2,386	1,258	161
Other food factories.....	17,633	9,791	7,842	11,323	4,475	1,570
Harness and saddle industries.....	18,135	17,753	562	13,478	4,384	255
Iron and steel industries.....	689,980	632,161	57,819	462,572	203,394	23,616
Agricultural implement factories.....	7,722	7,136	586	4,958	2,657	106
Automobile factories.....	121,164	108,376	12,788	85,013	34,331	1,726
Blast furnaces and steel rolling mills (including tinsplate mills).....	93,627	89,526	4,101	52,596	35,287	5,352
Car and railroad shops.....	97,979	97,003	976	68,617	25,664	3,619
Ship and boat building.....	97,666	97,175	491	65,440	25,886	6,200
Wagon and carriage factories.....	9,430	8,749	681	7,023	2,182	225
Other iron and steel factories <sup>1</sup> .....	245,450	209,112	36,338	168,126	71,695	5,580
Not specified metal industries.....	16,942	15,084	1,858	10,439	5,692	808
Other metal industries.....	91,291	60,844	30,447	62,744	27,297	1,234
Brass mills.....	17,482	13,576	3,906	10,124	7,102	254
Clock and watch factories.....	18,244	10,043	8,201	13,876	4,342	26
Copper factories.....	2,986	2,834	152	1,728	1,208	48
Gold, silver, and jewelry factories.....	21,322	13,378	7,944	15,102	6,074	139
Lead and zinc factories.....	2,464	2,186	278	1,777	627	60
Tinware, enamelware, etc., factories.....	19,356	12,167	7,189	14,025	4,748	580
Other metal factories.....	9,437	6,660	2,777	6,112	3,196	127
Lumber and furniture industries.....	168,719	150,079	18,640	116,442	41,824	9,598
Furniture factories.....	55,717	48,906	6,811	37,480	16,628	1,564
Piano and organ factories.....	19,852	16,949	2,903	12,102	7,592	157
Saw and planing mills <sup>2</sup> .....	57,320	54,016	3,304	42,123	8,567	6,269
Other woodworking factories.....	35,830	30,208	5,622	24,737	9,037	1,608
Paper and pulp mills.....	54,669	41,321	13,348	39,380	14,422	845
Printing and publishing.....	80,403	39,281	41,122	66,808	11,966	1,595
Shoe factories.....	206,225	132,813	73,412	148,944	55,941	1,306
Tanneries.....	32,226	28,598	3,628	15,940	15,305	971
<b>Textile industries—</b>						
Carpet mills.....	23,387	13,003	10,384	13,963	9,222	191
Cotton mills.....	302,454	153,269	149,185	206,250	92,534	3,649
Knitting mills.....	107,604	26,922	80,682	87,153	19,408	1,034
Lace and embroidery mills.....	19,083	6,086	12,997	10,948	7,906	227
Silk mills.....	115,721	42,953	72,768	84,595	30,793	328
Textile dyeing, finishing, and printing mills.....	17,736	12,154	5,582	10,940	6,477	305
Woolen and worsted mills.....	126,418	64,703	61,715	72,909	53,019	322
Other textile mills.....	79,994	34,944	45,050	49,798	25,850	1,631
<b>Other industries.....</b>	<b>622,662</b>	<b>410,256</b>	<b>212,406</b>	<b>417,418</b>	<b>182,155</b>	<b>22,757</b>
Broom and brush factories.....	12,606	10,219	2,387	9,152	2,796	647
Button factories.....	12,977	7,768	5,209	8,423	4,269	277
Electric light and power plants.....	15,949	15,610	339	13,407	2,164	370
Electrical supply factories.....	64,841	37,452	27,389	50,217	14,179	429
Gas works.....	9,462	9,294	168	6,782	2,351	327
Leather belt, leather case, etc., factories.....	17,189	12,809	4,380	9,012	7,857	318
Liquor and beverage industries.....	15,655	14,990	665	7,773	7,148	723
Paper-box factories.....	20,452	7,077	13,375	15,898	4,286	264
Petroleum refineries.....	8,891	8,229	662	6,727	1,900	257
Rubber factories.....	86,204	67,370	18,834	59,678	25,641	868
Straw factories.....	14,102	7,751	6,351	6,940	7,075	85
Other and not specified industries.....	344,334	211,717	132,617	223,404	102,489	18,192
Shoemakers and cobblers (not in factory).....	78,859	78,599	260	25,600	48,284	4,707
Skilled occupations (n. o. s. <sup>1</sup> ).....	19,395	19,326	69	13,914	5,236	238
Annealers and temperers (metal).....	2,913	2,910	3	1,728	1,133	51
Piano and organ tuners.....	7,047	7,007	40	5,624	1,346	77
Wood carvers.....	3,025	3,008	17	1,414	1,602	9
Other skilled occupations.....	6,410	6,401	9	5,148	1,155	101

<sup>1</sup> Not otherwise specified.<sup>2</sup> Includes iron foundries.<sup>3</sup> Includes box factories (wood).

## No. 51.—PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN EACH SPECIFIED OCCUPATION: CONTINENTAL UNITED STATES, 1920—Continued

Occupation	Total	Male	Female	Native white	Foreign-born white	Negro
<b>Manufacturing and mechanical industries—Continued</b>						
Stone cutters.....	22,099	22,096	3	10,863	10,955	280
Structural iron workers (building).....	18,836	13,836	-----	13,704	4,920	196
Tailors and tailoresses.....	192,232	160,404	31,828	43,432	141,359	6,892
Tinsmiths and coppersmiths.....	74,968	74,957	11	53,715	20,259	970
Upholsterers.....	29,605	27,338	2,267	20,182	8,771	648
<b>Transportation.....</b>	<b>3,063,582</b>	<b>2,850,528</b>	<b>213,054</b>	<b>2,195,579</b>	<b>547,613</b>	<b>312,421</b>
<b>Water transportation .<sup>4</sup></b>						
Boatmen, canalmen, and lock keepers.....	6,319	6,286	33	5,128	835	347
Captains, masters, mates, and pilots.....	26,320	26,318	2	17,673	8,325	307
Longshoremen and stevedores.....	85,928	85,605	323	20,893	37,693	27,337
Sailors and deck hands.....	54,832	54,800	32	27,098	20,214	7,282
<b>Road and street transportation .<sup>4</sup></b>						
Carriage and hack drivers.....	9,057	8,966	91	6,401	1,346	1,298
Chauffeurs.....	285,045	284,096	949	202,987	43,095	38,573
Draymen, teamsters, and expressmen <sup>5</sup> .....	411,132	410,484	648	298,942	54,907	56,714
Foremen of livery and transfer companies.....	3,868	3,866	2	2,804	825	237
Garage keepers and managers.....	42,151	41,944	207	37,201	4,591	309
Hostlers and stable hands.....	18,976	18,973	3	10,321	4,482	4,147
Laborers (garage, road, and street).....	158,482	158,204	278	76,714	45,381	35,829
Garage.....	31,450	31,339	111	21,691	3,630	6,047
Road and street building and repairing.....	115,836	115,673	163	51,165	35,890	28,318
Street cleaning.....	11,196	11,192	4	3,858	5,871	1,464
Livery-stable keepers and managers.....	11,240	11,168	72	9,469	1,565	193
Proprietors and managers of transfer companies.....	23,497	23,231	266	18,573	3,886	990
<b>Railroad transportation .<sup>4</sup></b>						
Baggage men and freight agents.....	16,819	16,789	30	14,746	1,589	482
Boiler washers and engine hostlers.....	25,305	25,271	34	16,037	5,417	3,517
Brakemen.....	114,107	114,107	-----	102,956	6,409	4,722
Conductors (steam railroad).....	74,539	74,539	-----	69,016	5,487	33
Conductors (street railroad).....	63,760	63,507	253	52,823	10,930	4
Foremen and overseers (steam railroad).....	73,046	72,980	66	55,344	15,674	1,185
Foremen and overseers (street railroad).....	6,248	6,236	12	4,663	1,507	74
Laborers (steam railroad).....	470,199	463,613	6,586	214,030	153,453	97,979
Laborers (street railroad).....	25,514	25,046	468	9,832	11,411	4,104
Locomotive engineers.....	109,899	109,899	-----	99,683	10,099	111
Locomotive firemen.....	91,345	91,345	-----	78,305	6,491	6,505
Motormen.....	66,519	66,499	20	49,851	16,653	6
Officials and superintendents.....	35,881	35,830	51	32,827	3,051	3
Switchmen, flagmen, and yardmen.....	111,565	111,000	565	91,131	16,800	3,598
Ticket and station agents.....	26,585	24,324	2,261	24,642	1,924	16
<b>Express, post, telegraph, and telephone .<sup>4</sup></b>						
Agents (express companies).....	5,293	5,193	100	5,038	250	4
Express messengers and railway mail clerks.....	25,005	24,996	9	23,015	1,083	904
Mail carriers.....	91,451	90,131	1,320	82,094	5,031	3,693
Telegraph and telephone linemen.....	37,917	37,905	12	34,770	2,860	377
Telegraph messengers.....	9,403	8,969	434	8,161	979	253
Telegraph operators.....	79,434	62,574	16,860	74,950	4,341	130
Telephone operators.....	190,160	11,781	178,379	181,589	7,816	718
<b>Other transportation pursuits:</b>						
Foremen and overseers (n. o. s.) <sup>1</sup> .....	25,995	25,958	37	21,463	4,073	446
Road and street building and repairing.....	9,558	9,557	1	7,763	1,606	181
Telegraph and telephone.....	6,822	6,797	25	6,184	631	7
Other transportation.....	9,615	9,604	11	7,516	1,836	258
Inspectors (steam and street railroads).....	46,172	46,120	52	37,445	8,495	229
Inspectors (other transportation).....	4,061	3,728	333	3,656	395	10
Laborers (n. o. s.) <sup>1</sup> .....	33,432	33,229	203	20,378	6,206	6,814
Express companies.....	9,089	9,067	22	6,019	1,574	1,486
Pipe lines.....	7,369	7,362	7	5,152	1,838	371
Telegraph and telephone.....	5,088	5,011	77	3,801	781	504
Water transportation.....	5,966	5,963	3	3,312	1,056	1,589
Other transportation.....	5,920	5,826	94	2,094	967	2,864
Proprietors, officials, and managers <sup>1</sup> .....	18,957	18,384	573	17,264	1,661	12
Telegraph and telephone.....	11,603	11,059	544	10,961	636	3
Other transportation.....	7,354	7,325	29	6,303	1,025	9

<sup>1</sup> Not otherwise specified.<sup>4</sup> Selected occupations.<sup>5</sup> Teamsters in agriculture, forestry, and extraction of minerals are classified with the other workers in those industries, and drivers for bakeries and laundries are classified with deliverymen in trade.

No. 51.—PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN EACH SPECIFIED OCCUPATION: CONTINENTAL UNITED STATES, 1920—Continued

Occupation	Total	Male	Female	Native white	Foreign-born white	Negro
<b>Other transportation pursuits—Contd</b>						
Other occupations (semiskilled).....	48, 124	46, 634	1, 490	35, 261	9, 843	2, 944
Steam railroad.....	28, 621	27, 916	705	21, 548	4, 568	2, 439
Street railroad.....	9, 259	9, 088	171	6, 239	2, 837	181
Other transportation.....	10, 244	9, 630	614	7, 474	2, 438	324
<b>Trade.....</b>	<b>4, 242, 979</b>	<b>3, 575, 187</b>	<b>667, 792</b>	<b>3, 228, 273</b>	<b>860, 530</b>	<b>140, 467</b>
<b>Bankers, brokers, and money lenders</b> .....	<b>161, 613</b>	<b>156, 309</b>	<b>5, 304</b>	<b>145, 749</b>	<b>15, 544</b>	<b>142</b>
Bankers and bank officials.....	82, 375	78, 149	4, 226	76, 901	5, 319	72
Commercial brokers and commission men.....	27, 552	27, 358	194	22, 991	4, 487	15
Loan brokers and pawnbrokers.....	5, 473	5, 321	152	4, 441	1, 014	10
Stock brokers.....	29, 609	29, 233	376	26, 773	2, 800	28
Brokers, not specified and promoters.....	16, 604	16, 248	356	14, 643	1, 924	17
<b>Clerks in stores</b> <sup>6</sup> .....	<b>413, 918</b>	<b>243, 521</b>	<b>170, 397</b>	<b>354, 397</b>	<b>52, 775</b>	<b>5, 268</b>
Commercial travelers.....	179, 320	176, 514	2, 806	160, 702	18, 210	357
Decorators, drapers, window dressers.....	8, 853	7, 698	1, 155	7, 060	1, 660	129
Deliverymen (bakeries, stores, and laundries).....	170, 235	170, 039	196	117, 867	27, 794	24, 398
Floorwalkers and foremen in stores.....	20, 604	16, 565	4, 039	16, 265	4, 007	322
Foremen (warehouses, stockyards, etc.).....	5, 833	5, 802	31	4, 625	1, 064	142
Inspectors, gaugers, and samplers.....	13, 714	12, 683	1, 031	10, 420	2, 313	977
Insurance agents.....	119, 918	114, 835	5, 083	100, 043	16, 897	2, 922
Officials of insurance companies.....	15, 060	14, 754	306	13, 035	1, 848	173
Laborers, coal yards.....	25, 192	25, 157	35	10, 818	7, 546	6, 794
Laborers, elevators.....	11, 312	11, 244	68	8, 148	2, 004	1, 158
Laborers, lumberyards.....	43, 351	43, 297	54	23, 996	11, 758	7, 463
Laborers, stockyards.....	22, 888	22, 859	29	6, 533	10, 316	6, 032
Laborers, warehouses.....	22, 866	22, 156	710	11, 372	5, 416	6, 042
Laborers, porters, helpers in stores.....	125, 007	116, 602	8, 405	57, 311	26, 044	40, 885
Newsboys.....	27, 961	27, 635	326	24, 600	2, 220	1, 115
Proprietors, officials, and managers <sup>1</sup> .....	34, 776	33, 715	1, 061	30, 002	4, 425	268
Real estate agents and officials.....	149, 135	139, 927	9, 208	123, 147	24, 495	1, 369
<b>Retail dealers</b> <sup>7</sup> .....	<b>1, 328, 275</b>	<b>1, 249, 295</b>	<b>78, 980</b>	<b>873, 094</b>	<b>424, 881</b>	<b>23, 526</b>
Agricultural implements and wagons.....	7, 789	7, 760	29	6, 723	1, 060	2
Automobiles and accessories.....	28, 768	28, 626	142	25, 585	3, 117	45
Books and stationery.....	8, 986	7, 860	1, 126	5, 350	3, 575	39
Boots and shoes.....	22, 544	21, 781	763	13, 301	9, 069	143
Butchers and meat dealers.....	122, 105	120, 940	1, 165	71, 122	47, 708	3, 009
Buyers and shippers of grain.....	7, 305	7, 288	17	6, 586	713	4
Buyers and shippers of livestock.....	30, 464	30, 433	31	27, 148	3, 102	172
Buyers and shippers of other farm produce.....	10, 540	10, 507	33	9, 672	801	38
Candy and confectionery.....	40, 091	32, 368	7, 723	19, 613	19, 808	573
Cigars and tobacco.....	19, 141	18, 031	1, 110	12, 350	6, 513	194
Clothing and men's furnishings.....	46, 653	43, 440	3, 213	25, 327	21, 115	1, 288
Coal and wood.....	26, 556	26, 057	499	18, 509	6, 279	1, 754
Delicatessen stores.....	4, 333	3, 565	768	1, 220	3, 084	27
Department stores.....	11, 752	10, 800	952	9, 456	2, 246	34
Drugs and medicines, including druggists and pharmacists.....	80, 157	76, 995	3, 162	68, 501	10, 519	910
Dry goods, fancy goods, and notions.....	63, 909	56, 158	7, 751	37, 402	25, 688	2, 622
Five and ten cent and variety stores.....	5, 968	4, 899	1, 069	4, 624	1, 321	13
Flour and feed.....	9, 309	9, 212	97	7, 818	1, 443	40
Fruit.....	23, 385	22, 185	1, 200	5, 585	17, 403	216
Furniture.....	26, 013	25, 337	676	18, 511	7, 229	256
General stores.....	80, 026	76, 817	3, 209	67, 629	10, 813	6, 359
Groceries.....	239, 236	216, 059	23, 177	148, 544	82, 542	1, 143
Hardware, stoves, and cutlery.....	41, 144	40, 453	691	34, 731	5, 903	74
Hucksters and peddlers.....	50, 402	48, 493	1, 909	15, 350	31, 434	3, 194
Jewelry.....	21, 433	20, 652	781	14, 428	6, 853	96
Junk.....	22, 749	22, 596	153	5, 272	16, 332	1, 132
Lumber.....	27, 687	27, 589	98	25, 125	2, 496	60
Milk.....	13, 104	12, 509	595	8, 797	4, 230	74
Music and musical instruments.....	7, 909	7, 360	549	6, 272	1, 601	32
Newsdealers.....	8, 474	7, 808	666	5, 714	2, 589	165
Oil, paint, and wall paper.....	6, 577	6, 298	279	4, 950	1, 612	12
Opticians.....	12, 632	11, 743	889	10, 499	2, 078	50
Produce and provisions.....	34, 473	32, 873	1, 600	21, 443	11, 936	689
Other specified retail dealers.....	100, 633	94, 820	6, 113	63, 858	34, 893	1, 378
Not specified retail dealers.....	65, 728	59, 483	6, 245	46, 040	17, 376	1, 488
<b>Salesmen and saleswomen</b> .....	<b>1, 177, 494</b>	<b>816, 352</b>	<b>361, 142</b>	<b>1, 008, 141</b>	<b>159, 965</b>	<b>6, 413</b>
Auctioneers.....	5, 048	5, 045	3	4, 319	714	13
Demonstrators.....	4, 823	1, 639	3, 184	4, 325	401	94
Sales agents.....	41, 841	40, 207	1, 634	37, 057	4, 670	96
Salesmen and saleswomen (stores).....	1, 125, 782	769, 461	356, 321	962, 440	154, 180	6, 210

<sup>1</sup> Not otherwise specified. <sup>6</sup> Many of the "Clerks in stores" are probably "Salesmen and saleswomen."<sup>7</sup> Includes also managers and superintendents of retail stores.

No. 51.—PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN EACH SPECIFIED OCCUPATION: CONTINENTAL UNITED STATES, 1920—Continued

Occupation	Total	Male	Female	Native white	Foreign-born white	Negro
<b>Trade—Continued</b>						
Undertakers	24,469	23,342	1,127	20,772	2,134	1,558
Wholesale dealers, importers and exporters	73,574	72,780	794	50,136	22,871	67
Other pursuits (semiskilled)	67,611	52,106	15,505	50,040	14,343	2,957
Fruit graders and packers	8,074	4,988	3,086	6,348	1,191	353
Meat cutters	22,884	22,804	80	18,211	4,218	446
Packers, wholesale and retail trade	19,701	13,603	6,098	13,931	4,654	1,076
Other occupations	16,952	10,711	6,241	11,550	4,280	1,082
<b>Public service (not elsewhere classified)</b>	<b>770,460</b>	<b>748,686</b>	<b>21,794</b>	<b>590,466</b>	<b>127,280</b>	<b>50,552</b>
Firemen (fire department)	50,771	50,771	—	45,110	5,540	109
Guards, watchmen, and doorkeepers	115,553	115,154	399	75,071	35,814	4,568
Laborers (public service)	106,915	105,385	1,530	44,898	31,820	30,330
Marshals, sheriffs, detectives, etc.	32,214	30,968	1,246	28,521	3,341	323
Officials and inspectors (city)	33,505	31,918	1,587	29,222	4,200	77
Officials and inspectors (county)	22,092	18,830	3,262	20,695	1,370	18
Officials and inspectors (State)	9,126	8,506	630	8,384	734	4
Postmasters	31,935	20,727	11,208	30,235	1,557	116
Other United States officials	39,273	38,621	652	35,768	3,359	74
Policemen	82,120	81,884	236	67,002	13,854	999
Soldiers, sailors, and marines <sup>8</sup>	225,603	225,603	—	189,192	22,563	12,511
Other pursuits	21,453	20,309	1,144	16,359	3,628	1,423
<b>Professional service</b>	<b>2,143,889</b>	<b>1,127,391</b>	<b>1,016,498</b>	<b>1,826,090</b>	<b>231,719</b>	<b>80,183</b>
Actors	28,361	15,124	13,237	22,581	4,558	1,095
Showmen	19,811	18,694	1,117	16,054	2,811	878
Architects	18,185	18,048	1,137	15,213	2,905	50
Artists, sculptors, and teachers of art	35,402	20,785	14,617	27,549	7,479	259
Authors	6,668	3,662	3,006	5,716	872	64
Editors and reporters	34,197	28,467	5,730	30,335	3,492	261
Chemists, assayers, and metallurgists	32,941	31,227	1,714	27,880	4,788	207
Clergymen	127,270	125,483	1,787	80,540	26,891	19,571
College presidents and professors <sup>9</sup>	33,407	23,332	10,075	29,260	3,053	1,063
Dentists	56,152	54,323	1,829	48,397	6,527	1,109
Designers, draftsmen, and inventors	70,651	62,987	7,664	56,617	13,539	145
Lawyers, judges, and justices	122,519	120,781	1,738	113,822	7,779	980
Librarians	15,297	1,795	13,502	14,439	788	69
Musicians and teachers of music	130,265	57,587	72,678	102,798	21,444	5,902
Osteopaths	5,080	3,367	1,663	4,332	424	215
Photographers	34,259	27,140	7,119	26,962	6,511	608
Physicians and surgeons	144,977	137,758	7,219	125,666	15,571	3,495
Teachers (athletics, dancing, etc.)	9,711	5,677	4,034	8,209	1,371	121
Teachers (school)	752,055	116,848	635,207	681,017	35,136	35,442
Technical engineers	136,121	136,080	41	119,889	15,941	184
Civil engineers and surveyors	64,660	64,642	18	58,786	5,743	85
Electrical engineers	27,077	27,065	12	24,041	2,944	68
Mechanical engineers <sup>10</sup>	37,689	37,678	11	31,298	6,326	31
Mining engineers	6,695	6,695	—	5,764	822	—
Trained nurses	149,128	5,464	143,664	122,908	22,772	3,341
Veterinary surgeons	13,494	13,493	1	11,984	1,357	145
All other professional pursuits	19,721	13,950	5,771	16,419	2,983	117
Semiprofessional pursuits	116,555	70,626	45,929	93,504	19,821	2,888
Abstractors, notaries, and justices of peace	10,071	8,588	1,483	9,202	800	58
Healers (except osteopaths and physicians and surgeons)	14,774	6,872	7,902	11,013	3,042	606
Keepers of charitable and penal institutions	12,884	7,953	4,931	10,620	2,134	126
Officials of lodges, societies, etc.	11,736	9,574	2,162	9,553	1,533	276
Religious, charity, welfare workers	41,078	14,151	26,927	32,176	7,573	1,231
Theatrical owners, managers, and officials	18,395	17,188	1,257	15,139	3,054	175
All other occupations	7,617	6,350	1,267	5,796	1,385	416
Attendants and helpers (prof service)	31,712	14,693	17,019	26,949	2,706	2,014
<b>Domestic and personal service</b>	<b>3,404,892</b>	<b>1,217,968</b>	<b>2,186,924</b>	<b>1,526,930</b>	<b>769,193</b>	<b>1,084,590</b>
Barbers, hairdressers, and manicurists	216,211	182,965	33,246	124,995	59,108	31,352
Billiard room, dance hall, skating rink, etc., keepers	24,897	24,655	242	16,134	6,913	1,582

<sup>8</sup> Includes only those resident in continental United States at the date of enumeration.<sup>9</sup> Probably includes some teachers in schools below collegiate rank.<sup>10</sup> Includes, also, all technical engineers not elsewhere classified

**No. 51.—PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN EACH SPECIFIED OCCUPATION: CONTINENTAL UNITED STATES, 1920—Continued**

Occupation	Total	Male	Female	Native white	Foreign-born white	Negro
<b>Domestic and personal service—Contd</b>						
Boarding and lodging house keepers.....	133,392	18,652	114,740	92,532	29,474	10,787
Bootblacks.....	15,175	15,142	33	2,049	7,556	5,560
Charwomen and cleaners.....	36,803	11,848	24,955	12,557	14,596	9,283
Elevator tenders.....	40,713	33,376	7,337	19,934	10,385	10,334
Hotel keepers and managers.....	55,583	41,449	14,134	41,039	12,834	1,020
Housekeepers and stewards.....	221,612	17,262	204,350	159,513	46,255	15,161
Janitors and sextons.....	178,628	149,590	29,038	78,604	54,910	44,110
Laborers (domestic and professional service).....	32,893	31,224	1,669	17,212	10,009	5,485
Laundrerers and laundresses (not in laundry).....	396,756	10,882	385,874	72,583	34,638	288,763
Laundry operatives <sup>11</sup> .....	120,715	39,968	80,747	63,253	19,397	25,332
Laundry owners, officials, and managers <sup>11</sup> .....	13,692	12,239	1,453	8,150	4,189	247
Midwives.....	4,773	—	4,773	806	2,476	1,437
Nurses (not trained).....	151,996	19,338	132,658	110,071	28,024	13,798
Porters, domestic and professional service.....	43,208	42,929	279	8,268	9,083	25,405
Porters, steam railroad.....	22,513	22,486	27	1,504	745	20,224
Other porters (except in stores).....	22,447	22,268	179	4,047	4,521	13,802
Restaurant, café, and lunch room keepers.....	87,987	72,343	15,644	47,503	30,456	7,511
<b>Servants.....</b>	<b>1,270,946</b>	<b>258,813</b>	<b>1,012,133</b>	<b>486,618</b>	<b>285,634</b>	<b>481,590</b>
Bell boys, chore boys, etc.....	17,231	16,472	759	7,166	2,445	7,293
Chambermaids.....	29,302	250	29,052	10,596	8,130	10,453
Coachmen and footmen.....	2,427	2,427	—	737	1,192	494
Cooks.....	398,475	129,857	268,618	104,677	80,877	202,435
Ladies' maids, valets, etc.....	5,791	1,268	4,523	3,082	2,098	548
Nursemaids.....	11,890	11	11,879	5,003	1,629	5,244
All other servants.....	805,830	108,528	697,302	355,357	189,263	255,123
<b>Waiters.....</b>	<b>228,985</b>	<b>112,064</b>	<b>116,921</b>	<b>113,049</b>	<b>66,149</b>	<b>45,836</b>
<b>Other pursuits.....</b>	<b>84,967</b>	<b>78,475</b>	<b>6,492</b>	<b>46,509</b>	<b>31,841</b>	<b>5,971</b>
Bar-tenders.....	26,085	25,976	109	14,125	11,849	5,793
Cleaners and renovators (clothing).....	21,667	17,094	4,573	11,607	5,792	4,057
Hunters, trappers, and guides.....	7,332	7,288	44	5,998	595	394
Saloon keepers.....	17,835	17,312	523	6,941	10,791	96
All other occupations.....	12,048	10,805	1,243	7,838	3,314	851
<b>Clerical occupations.....</b>	<b>3,126,541</b>	<b>1,700,425</b>	<b>1,426,116</b>	<b>2,820,107</b>	<b>267,177</b>	<b>37,011</b>
Agents, canvassers, and collectors.....	175,772	159,941	15,831	154,180	19,877	1,566
Bookkeepers, cashiers, and accountants.....	734,688	375,564	359,124	664,923	66,578	2,364
Clerks (except clerks in stores).....	1,487,905	1,015,742	472,163	1,332,767	136,649	17,437
Messenger, bundle, and office boys and girls <sup>12</sup> .....	113,022	98,768	14,254	91,034	8,577	13,332
Stenographers and typists.....	615,154	50,410	564,744	577,203	35,496	2,312

<sup>11</sup> Some of the owners of hand laundries probably are included with laundry operatives.<sup>12</sup> Except telegraph messengers**No. 52.—SHIFT IN OCCUPATIONS, 1880-1920 (ADJUSTED FIGURES) <sup>1</sup>**

Occupation	Number (thousands)			Per cent		
	1880	1900	1920	1880	1900	1920
<b>Total.....</b>	<b>17,392</b>	<b>29,073</b>	<b>41,854</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Agriculture, lumbering, and fishing.....	8,596	10,889	11,393	49.4	37.5	27.2
Manufacturing, mechanical pursuits, and mining.....	4,449	7,451	13,809	25.6	29.1	33.0
Trade, transportation, and clerical work.....	2,122	5,444	10,383	12.2	18.7	24.8
Professional service.....	603	1,213	2,112	3.5	4.2	5.0
Domestic and personal service.....	1,622	3,076	4,157	9.3	10.6	9.9

<sup>1</sup> Owing to changes in the grouping of occupations according to great classes, in the definition of certain individual occupations, and in instructions to enumerators (especially as to reporting women and children), the census statistics as originally published require regrouping and also certain adjustments which must be made by estimate. The margin of possible error involved in these estimates is not sufficient to obscure the general nature of the shift which has taken place.

Source of Tables 51 and 52. Bureau of the Census, adjustments in Table 48 by Division of Statistical Research, Bureau of Foreign and Domestic Commerce

## No. 53.—RELIGIOUS BODIES: CHURCHES AND MEMBERS, BY DENOMINATIONS

NOTE The names of many of the denominations have been somewhat abbreviated

Denomination	Churches reporting members		Number of members		Membership by age, 1926		
	1916	1926	1916	1926	Under 13 years	13 years and over	Age not reported
All denominations.....	228, 718	232, 154	41, 928, 854	54, 576, 346	8, 320, 785	36, 947, 013	9, 303, 543
Adventists (5 bodies).....	2, 667	2, 576	114, 915	146, 177	3, 540	127, 467	15, 170
Baptist bodies.....	57, 828	60, 192	7, 153, 313	8, 440, 922	415, 798	6, 149, 474	1, 875, 650
Northern Baptist Convention.....	18, 319	7, 611 <sup>1</sup>	1, 244, 705	1, 289, 960	49, 897	1, 122, 211	117, 858
Southern Baptist Convention.....	23, 580	23, 374	2, 708, 870	3, 524, 378	182, 828	2, 805, 543	536, 008
Negro Baptists <sup>2</sup> .....	21, 071	22, 021	2, 938, 579	3, 196, 623	178, 230	1, 921, 338	1, 097, 055
Free Will Baptists.....	2, 142	1, 021	54, 833	79, 592	1, 190	65, 786	12, 616
Primitive Baptists.....	2, 142	2, 207	80, 311	81, 374	78	42, 283	39, 016
All other (13 bodies).....	1, 966	3, 835	126, 015	268, 989	3, 578	192, 314	73, 097
Brethren, German Baptist (Dunkers) (5 bodies).....	1, 283	1, 279	133, 626	158, 248	9, 769	137, 343	11, 136
Christian Church (Gen. Convention).....	1, 263	1, 044	118, 737	112, 795	7, 411	93, 500	11, 884
Church of Christ Scientist.....	(3)	1, 913	(3)	202, 098	-----	202, 098	-----
Church of the Nazarene.....	866	1, 444	32, 259	63, 558	3, 077	55, 991	4, 450
Churches of Christ.....	5, 570	6, 226	317, 937	433, 714	-----	-----	433, 714
Congregational Churches.....	4, 900	5, 028	489, 236	881, 696	16, 291	752, 534	112, 871
Disciples of Christ.....	8, 396	7, 648	1, 226, 028	1, 377, 595	87, 237	1, 148, 335	142, 023
Eastern Orthodox Churches.....	301	446	249, 840	259, 394	59, 913	186, 399	13, 082
Greek Orthodox Church.....	87	153	119, 871	119, 485	28, 003	87, 844	8, 631
Russian Orthodox Church.....	199	199	99, 683	95, 134	28, 003	65, 751	3, 380
All other (5 bodies).....	45	94	30, 288	47, 765	10, 890	32, 804	1, 071
Evangelical Church.....	5, 592	2, 054	521, 530	206, 080	10, 410	186, 910	8, 760
Evangelical Synod of North America.....	1, 331	1, 287	339, 853	314, 518	-----	314, 518	-----
Federated Churches.....	(3)	361	(3)	59, 977	2, 101	51, 511	6, 365
Friends (4 bodies).....	1, 023	885	112, 982	110, 422	16, 166	85, 945	8, 311
Jewish congregations.....	1, 619	3, 118	357, 135	4, 081, 242	-----	-----	4, 081, 242
Latter Day Saints (2 bodies).....	1, 530	1, 867	462, 329	606, 561	119, 861	442, 874	43, 826
Lutheran bodies.....	13, 921	15, 102	2, 467, 516	3, 066, 003	1, 086, 652	2, 731, 969	147, 982
United Luth. Church in America.....	6, 559	3, 650	763, 596	1, 214, 340	304, 723	865, 844	43, 773
Augustana Synod.....	1, 165	1, 180	204, 417	311, 425	78, 920	232, 733	1, 772
Synodical Conference of America.....	3, 620	4, 752	777, 701	1, 292, 620	370, 685	860, 021	61, 914
Norwegian Luth. Church of America.....	2, 740	2, 554	318, 650	496, 707	146, 306	328, 206	22, 095
Joint Synod of Ohio and Other States.....	826	872	164, 968	247, 783	73, 234	170, 043	4, 506
Synod of Iowa and Other States.....	977	873	130, 793	217, 873	63, 798	150, 159	3, 916
All other (12 bodies).....	1, 034	1, 221	107, 391	185, 255	50, 986	124, 863	9, 406
Mennonites (17 bodies).....	835	826	79, 363	87, 164	1, 735	77, 641	7, 788
Methodist bodies.....	65, 692	60, 644	7, 166, 885	8, 070, 619	636, 940	6, 190, 559	1, 193, 120
Methodist Episcopal Church.....	29, 315	26, 130	3, 717, 785	4, 080, 777	313, 840	3, 250, 505	516, 432
Methodist Protestant Church.....	2, 473	2, 239	186, 098	192, 171	11, 551	150, 373	30, 247
Methodist Episcopal, South.....	19, 184	18, 096	2, 114, 479	2, 487, 694	239, 647	1, 820, 330	427, 717
African Methodist Episcopal.....	6, 633	6, 708	548, 355	545, 814	42, 230	358, 833	144, 751
African Methodist Episcopal Zion.....	2, 716	2, 466	257, 169	456, 813	57, 977	391, 960	6, 876
Colored Methodist Episcopal.....	2, 621	2, 518	245, 749	202, 713	14, 964	129, 643	58, 106
All other (13 bodies).....	2, 750	2, 487	96, 440	104, 637	6, 731	88, 915	8, 991
Polish National Catholic Church.....	34	91	28, 245	61, 574	16, 151	35, 950	9, 473
Presbyterian bodies.....	15, 840	14, 848	2, 265, 626	2, 625, 284	122, 361	2, 281, 698	221, 225
Presbyterian Church, U S A.....	9, 773	8, 947 <sup>3</sup>	1, 625, 817	1, 894, 030	77, 700	1, 653, 033	163, 297
Cumberland Presbyterian Church.....	1, 313	1, 097	72, 052	67, 938	3, 345	57, 770	6, 823
United Presbyterian Church.....	991	901	160, 726	171, 571	7, 587	156, 512	7, 472
Presbyterian Church, U S.....	3, 365	3, 469	357, 769	451, 043	30, 769	379, 463	40, 811
All other (5 bodies).....	398	434	30, 262	40, 702	2, 960	34, 920	2, 822
Protestant Episcopal Church.....	7, 345	7, 299	1, 092, 821	1, 859, 086	462, 310	1, 299, 351	97, 425
Reformed bodies.....	2, 745	2, 682	537, 822	617, 551	35, 891	524, 155	57, 505
Reformed Church in America.....	715	717	144, 929	153, 739	1, 951	118, 664	33, 124
Reformed Church in the U S.....	1, 758	1, 709	344, 374	361, 286	1, 995	339, 344	19, 947
All other (2 bodies).....	272	256	48, 519	102, 526	31, 945	66, 147	4, 434
Roman Catholic Church.....	17, 375	18, 940	15, 721, 815	18, 605, 003	5, 053, 781	12, 857, 277	693, 945
Salvation Army.....	742	1, 052	35, 954	74, 768	21, 006	53, 746	17
Spiritualists.....	354	611	29, 028	50, 631	506	39, 204	10, 921
Unitarians.....	411	353	82, 515	60, 152	595	57, 378	2, 184
United Brethren (3 bodies).....	3, 889	3, 375	367, 934	395, 885	32, 819	330, 395	32, 761
Universalist Church.....	643	498	68, 569	54, 957	676	49, 835	4, 446
All other denominations.....	4, 723	8, 465	364, 044	592, 672	47, 788	483, 052	61, 832

<sup>1</sup>Includes Free Baptist Churches<sup>2</sup>Figures for 1916 are for the National Baptist Convention. Figures for 1926 include 243 churches reported with the Northern Baptist Convention in 1916<sup>3</sup>Not reported<sup>4</sup>Includes figures for Evangelical Protestant Church of North America.<sup>5</sup>Includes Evangelical Association and United Evangelical Church<sup>6</sup>Includes the General Synod, United Synod of the South, and the General Council (except Augustana Synod)<sup>7</sup>Includes 4 synods, of which the largest is the Synod of Missouri, Ohio, and Other States.<sup>8</sup>Includes figures for Welsh Calvinistic Methodist Church

Source: Bureau of the Census, Department of Commerce.

**No. 54.—RELIGIOUS BODIES: VALUE OF PROPERTY AND EXPENDITURES, AND NUMBER OF SUNDAY SCHOOLS AND SCHOLARS, AS REPORTED FOR 1926, FOR THE PRINCIPAL DENOMINATIONS**

NOTE —The names of many of the denominations have been somewhat abbreviated

Denomination	Value of church edifices		Expenditures during year		Sunday schools	
	Churches reporting	Amount	Churches reporting	Amount	Churches reporting	Number of scholars
All denominations.....	202, 930	\$3,839,500,610	216, 042	\$817,214,523	184, 686	21, 038, 526
Adventists (5 bodies).....	1, 819	11, 069, 449	2, 336	7, 610, 863	1, 759	102, 779
Baptist bodies.....	52, 281	469, 827, 795	54, 145	98, 045, 096	47, 889	4, 654, 241
Northern Baptist Convention.....	7, 297	185, 370, 576	7, 890	34, 318, 486	6, 999	1, 052, 794
Southern Baptist Convention.....	21, 128	173, 456, 965	22, 333	42, 904, 563	19, 882	2, 345, 630
Negro Baptists.....	19, 383	103, 465, 759	20, 209	19, 475, 981	18, 755	1, 121, 362
Free Will Baptists.....	765	1, 156, 743	872	252, 613	613	38, 199
Primitive Baptists.....	1, 037	1, 730, 348	776	166, 847	5	181
All other (13 bodies).....	2, 221	4, 647, 404	2, 570	926, 606	1, 605	96, 076
Brethren, German Baptist (Dunkers) (5 bodies).....	1, 206	11, 110, 013	1, 182	2, 293, 622	1, 067	133, 483
Christian Church (General Convention).....	976	7, 202, 193	1, 004	1, 353, 379	938	85, 478
Church of Christ Scientist.....	1, 185	69, 416, 744	1, 859	14, 202, 116	1, 655	140, 566
Church of the Nazarene.....	1, 113	7, 323, 718	1, 340	3, 124, 444	1, 233	109, 237
Churches of Christ.....	5, 089	16, 402, 158	5, 975	3, 961, 310	4, 403	274, 571
Congregational Churches.....	4, 795	162, 212, 552	4, 810	25, 820, 342	4, 601	596, 881
Disciples of Christ.....	6, 887	114, 860, 211	7, 260	22, 967, 484	6, 680	1, 000, 416
Eastern Orthodox Churches.....	397	11, 789, 108	423	2, 044, 415	198	14, 195
Greek Orthodox Church.....	131	5, 011, 718	145	958, 809	73	5, 796
Russian Orthodox Church.....	187	4, 833, 515	195	838, 453	90	5, 770
All other (5 bodies).....	79	1, 893, 875	83	247, 153	35	2, 629
Evangelical Church.....	1, 989	25, 380, 761	2, 036	5, 951, 009	2, 000	280, 195
Evangelical Synod of North America.....	1, 253	35, 789, 581	1, 274	6, 022, 900	1, 146	171, 402
Federated churches.....	343	6, 159, 725	354	1, 272, 455	347	46, 820
Friends (4 bodies).....	819	10, 217, 657	854	1, 687, 785	727	67, 889
Jewish Congregations.....	1, 135	97, 401, 688	1, 290	19, 076, 451	531	70, 380
Latter Day Saints (2 bodies).....	1, 415	18, 983, 315	1, 769	3, 095, 895	1, 736	209, 593
Lutheran bodies.....	13, 400	273, 409, 748	14, 721	59, 500, 845	11, 472	1, 249, 998
United Lutheran Church in America.....	3, 516	114, 526, 248	3, 577	21, 162, 961	3, 415	619, 781
Augustana Synod.....	1, 113	22, 781, 698	1, 165	5, 369, 446	1, 036	100, 775
Synodical Conference of America.....	3, 878	78, 755, 894	4, 601	19, 487, 432	3, 028	212, 071
Norwegian Lutheran Church of America.....	2, 278	24, 822, 215	2, 497	5, 786, 977	1, 660	131, 147
Joint Synod of Ohio and Other States.....	832	15, 646, 708	865	3, 702, 259	769	88, 822
Synod of Iowa and Other States.....	799	8, 667, 486	867	2, 223, 888	778	50, 878
All other (12 bodies).....	979	8, 219, 499	1, 149	1, 767, 882	786	46, 524
Mennonites (17 bodies).....	680	4, 453, 613	731	1, 270, 067	631	87, 897
Methodist bodies.....	56, 493	654, 736, 975	59, 483	152, 151, 978	54, 804	6, 567, 654
Methodist Episcopal Church.....	25, 280	406, 165, 659	25, 790	89, 422, 307	24, 730	3, 796, 561
Methodist Protestant Church.....	2, 094	16, 817, 278	2, 160	3, 137, 211	1, 917	173, 438
Methodist Episcopal, South.....	16, 443	161, 986, 430	17, 798	41, 651, 150	15, 825	1, 802, 464
African Methodist Episcopal.....	5, 829	32, 092, 549	6, 492	7, 600, 161	5, 884	288, 247
African Methodist Episcopal Zion.....	2, 370	18, 515, 723	2, 464	4, 757, 066	2, 429	267, 141
Colored Methodist Episcopal.....	2, 341	9, 211, 437	2, 477	2, 428, 234	2, 351	103, 623
All other (13 bodies).....	2, 126	9, 947, 899	2, 302	3, 155, 849	1, 968	136, 280
Polish National Catholic Church.....	84	3, 365, 600	87	485, 698	74	6, 401
Presbyterian bodies.....	13, 852	443, 572, 158	14, 259	87, 535, 390	13, 222	2, 001, 928
Presbyterian Church in the U. S. A.....	8, 437	338, 152, 743	8, 656	63, 230, 663	8, 237	1, 407, 298
Cumberland Presbyterian Church.....	986	3, 321, 287	961	759, 021	765	48, 052
United Presbyterian Church.....	879	29, 714, 845	890	6, 642, 820	871	148, 658
Presbyterian Church in the U. S. ....	3, 148	67, 798, 658	3, 330	15, 612, 028	2, 959	367, 796
All other (5 bodies).....	402	4, 584, 625	422	1, 290, 588	390	30, 125
Protestant Episcopal Church.....	6, 532	314, 596, 738	6, 817	44, 790, 130	5, 607	479, 430
Reformed bodies.....	2, 618	88, 457, 147	2, 659	14, 810, 436	2, 489	465, 725
Reformed Church in America.....	690	38, 436, 822	714	5, 524, 673	689	124, 308
Reformed Church in the U. S. ....	1, 680	44, 662, 875	1, 692	7, 488, 446	1, 614	315, 343
All other (2 bodies).....	248	5, 357, 450	253	1, 797, 317	186	26, 074
Roman Catholic Church.....	16, 254	837, 271, 053	16, 317	204, 526, 487	8, 239	1, 201, 330
Salvation Army.....	652	17, 738, 506	1, 044	6, 001, 317	1, 015	91, 586
Spiritualists.....	94	1, 884, 156	509	531, 508	62	5, 552
Unitarians.....	337	27, 713, 554	344	3, 418, 975	317	19, 722
United Brethren (3 bodies).....	3, 224	29, 578, 679	3, 288	7, 321, 073	3, 088	400, 749
Universalist Church.....	470	15, 826, 940	470	1, 616, 624	350	24, 738
All other denominations.....	5, 538	52, 259, 075	7, 412	14, 744, 434	6, 376	477, 690

Source Bureau of the Census, Department of Commerce



## 2.—DEFECTIVES, DELINQUENTS, AND DEPENDENTS

[Data in this section relate to continental United States. See also general note, p. 66]

### No. 55.—DEFECTIVES, DELINQUENTS, AND DEPENDENTS: BY STATES

Division and State	Number enumerated (Jan 1)							Ratio per 100,000 of population			
	Deaf-mutes, 1920	Blind, 1920	Pa-tients in hos-pitals for mental disease, 1923	Feeble-minded in institutions, 1923	Pris-oners, <sup>1</sup> 1923	Juve-nile delin-quents, <sup>2</sup> 1923	Pau-pers in almshouses, 1923	Deaf-mutes	Blind	Pa-tients in hos-pitals for mental disease, 1923	Pris-oners
United States	44, 885	52, 567	267, 617	42, 954	109, 619	27, 238	78, 090	42 5	49 7	245 0	99 7
New England	3, 093	4, 699	26, 876	5, 009	5, 948	2, 603	9, 529	41 8	63 5	352 7	77. 6
Maine	414	583	1, 864	467	511	288	745	53 9	75 9	240 6	65 9
New Hampshire	149	382	1, 399	303	244	167	870	33 6	86 2	313 5	54. 6
Vermont	143	195	1, 277	179	357	207	234	40 6	55 3	362 3	101. 3
Massachusetts	1, 592	2, 589	15, 869	3, 034	3, 134	1, 229	5, 629	41 3	67 2	399 0	78 3
Rhode Island	197	231	1, 630	377	547	196	889	32 6	34 2	262 8	87. 7
Connecticut	598	719	4, 837	559	1, 155	516	1, 162	43 3	52 1	333 8	79. 0
Middle Atlantic	8, 361	9, 374	70, 535	13, 393	20, 706	6, 613	18, 564	37 6	42. 1	308 4	89 4
New York	4, 022	4, 205	40, 986	7, 278	10, 635	3, 202	8, 740	38 7	40 5	382. 6	98. 7
New Jersey	940	1, 075	8, 864	1, 633	2, 594	887	1, 764	29 8	34. 1	267 4	77. 5
Pennsylvania	3, 399	4, 094	20, 865	4, 482	7, 477	2, 524	8, 060	39 0	46 9	230 0	82. 7
East North Central	10, 770	12, 234	56, 881	10, 323	21, 059	4, 987	21, 405	50 2	57 0	255 0	93 7
Ohio	2, 763	3, 873	13, 193	2, 510	5, 638	1, 604	6, 872	43 0	67 2	218 8	92. 9
Indiana	1, 576	2, 223	6, 595	1, 565	2, 911	833	3, 128	53 8	75 9	220 6	97. 0
Illinois	2, 941	3, 246	19, 061	2, 468	6, 166	1, 200	6, 415	45 3	50 1	284 4	91 4
Michigan	1, 802	1, 579	8, 971	2, 132	4, 722	750	3, 262	49. 1	43 0	230 7	120 0
Wisconsin	1, 688	1, 313	9, 091	1, 658	1, 622	601	1, 728	64. 1	49. 9	335 6	59 5
West North Central	5, 812	6, 111	31, 355	6, 547	10, 264	3, 228	7, 298	46 3	49 7	245. 4	80 0
Minnesota	1, 044	870	6, 691	1, 892	2, 211	738	1, 032	43 7	36 4	271 2	89 0
Iowa	1, 056	1, 159	6, 902	1, 596	1, 946	555	1, 711	44 3	48 2	281 7	79 1
Missouri	1, 703	2, 226	8, 806	779	2, 726	904	2, 712	50 0	65 4	256. 5	79 3
North Dakota	247	145	1, 269	338	338	180	120	38 2	22 4	190 9	50 6
South Dakota	283	211	1, 267	424	171	94	171	44. 5	33 1	199 5	57 7
Nebraska	553	405	2, 988	751	932	336	573	42 7	31 2	225 7	70 2
Kansas	916	1, 095	3, 402	767	1, 734	441	979	51 8	61 9	190 1	96 7
South Atlantic	5, 946	6, 694	28, 637	2, 444	17, 301	4, 241	6, 875	42 5	47 8	198 1	118 9
Delaware	46	139	518	50	318	153	277	20 6	62 3	226. 9	138 6
Maryland	657	763	4, 719	773	1, 866	912	1, 368	45 3	52 6	316 8	124. 6
Dist. of Col.	351	358	3, 931	—	473	380	313	80 2	81 8	898 4	100 5
Virginia	1, 042	1, 161	5, 129	644	2, 466	542	1, 211	45 1	50 3	216. 1	103 4
West Virginia	632	647	2, 134	359	1, 972	481	702	43 2	44 2	139. 8	128 2
North Carolina	1, 189	1, 230	3, 692	308	1, 738	544	1, 474	46 5	48 1	139. 3	65 1
South Carolina	539	597	2, 414	123	1, 255	477	451	32 0	35. 5	139. 8	72 3
Georgia	1, 094	1, 336	4, 160	47	5, 622	403	872	37 8	46 1	139. 7	188. 4
Florida	396	463	1, 950	140	1, 591	349	207	40. 9	47 8	190. 4	153 7
East South Central	3, 745	4, 685	13, 450	621	9, 849	1, 465	4, 097	42 1	55 5	149 1	108. 9
Kentucky	1, 255	1, 640	4, 708	531	2, 484	618	1, 457	51. 9	67 9	192 2	101. 1
Tennessee	1, 103	1, 429	3, 407	15	1, 986	272	1, 477	47 2	61 1	143 3	83. 3
Alabama	817	1, 026	2, 718	—	3, 571	575	768	34 8	43 7	113 1	148 0
Mississippi	570	840	2, 617	75	1, 808	( <sup>3</sup> )	395	31 8	46 9	146 2	101. 0
West South Central	3, 902	4, 958	14, 936	739	9, 344	1, 570	2, 075	39 1	41 6	140 7	87 4
Arkansas	740	919	2, 121	7	1, 555	205	578	42 2	52 4	118 0	86 0
Louisiana	866	725	3, 322	170	1, 940	134	174	48 2	40 3	181. 0	105 3
Oklahoma	624	860	2, 895	330	1, 957	293	250	30 8	42 4	136. 3	91 3
Texas	1, 672	1, 754	6, 598	232	3, 892	938	1, 073	35 9	37. 6	135. 7	79 4
Mountain	1, 211	1, 906	6, 471	731	3, 441	1, 144	1, 778	36 3	57 1	184. 0	96. 8
Montana	150	180	1, 438	91	405	182	324	27 3	32 8	242 3	67. 2
Idaho	124	131	609	253	337	271	193	28 7	30 3	132. 6	72 5
Wyoming	36	30	429	128	358	59	62	18 5	15 4	205. 9	171 0
Colorado	364	706	2, 147	259	1, 154	483	667	38 7	75 1	220 0	120 4
New Mexico	190	552	392	—	263	42	( <sup>3</sup> )	52 7	153 2	108 3	70 7
Arizona	92	101	554	—	422	92	206	27 5	30 2	150 7	112 8
Utah	236	165	700	—	264	( <sup>3</sup> )	188	52 5	36 7	149. 3	55. 8
Nevada	19	41	205	—	209	15	138	24. 5	53 0	264. 8	270 0
Pacific	2, 045	2, 356	18, 476	3, 147	7, 043	1, 887	6, 469	36 7	42 3	312 1	117. 5
Washington	566	498	3, 815	803	1, 353	334	769	41. 7	36 7	270 2	95 4
Oregon	844	354	2, 666	675	577	193	580	43. 9	45 2	328. 4	70 6
California	1, 135	1, 504	11, 995	1, 669	5, 108	860	5, 120	33. 1	43 9	324. 4	136. 2

<sup>1</sup> Figures include 544 inmates of State prisons, for whom no schedules were received, not included in Tables 70, 73, and 74. Total also includes 4,664 prisoners in Federal prisons

<sup>2</sup> In special institutions.

<sup>3</sup> Not reported.

<sup>4</sup> No almshouses maintained.

Source: Bureau of the Census, Department of Commerce

GENERAL NOTE.—The figures contained in this section can not be taken as an absolute index of conditions. The provisions for the care of these classes are so divergent in different States, and in the same State at different times, that the enumeration of persons in certain institutions may be far from reflecting the true differences or changes in the relative number of such persons in the population at large. Moreover, the methods of enumeration have been changed from time to time. The difficulty of formulating an adequate definition, the large element of personal judgment of the enumerator, and reluctance on the part of individuals to admit defects, all affect the accuracy of the data.

### No. 56.—DEAF-MUTE POPULATION ENUMERATED: 1880 to 1920

Division	Number on date of enumeration					Ratio per 100,000 population				
	1880 <sup>1</sup>	1890 <sup>2</sup>	1900 <sup>3</sup>	1910 <sup>4</sup>	1920 <sup>5</sup>	1880	1890	1900	1910	1920
United States.....	33, 378	40, 592	24, 369	44, 708	44, 885	67. 5	64. 8	32. 1	48. 6	42. 5
New England.....	2, 581	3, 389	1, 279	2, 373	3, 093	64. 4	72. 1	22. 9	36. 2	41. 8
Middle Atlantic.....	7, 368	7, 967	3, 974	8, 823	8, 361	70. 2	62. 7	25. 7	45. 7	37. 6
East North Central.....	8, 512	9, 837	5, 634	9, 810	10, 770	77. 0	73. 0	35. 2	53. 8	50. 2
West North Central.....	4, 151	6, 214	4, 082	6, 211	5, 812	67. 4	69. 6	30. 4	53. 4	46. 3
South Atlantic.....	4, 975	5, 597	3, 673	6, 260	5, 946	65. 5	63. 2	35. 2	51. 3	42. 5
East South Central.....	3, 682	3, 821	2, 595	4, 458	3, 745	65. 9	59. 6	35. 7	53. 0	42. 1
West South Central.....	1, 784	2, 478	2, 100	4, 298	3, 902	53. 5	52. 3	32. 1	48. 9	38. 1
Mountain.....	317	508	370	1, 027	1, 211	48. 5	41. 8	22. 1	39. 0	36. 3
Pacific.....	508	771	562	1, 448	2, 045	45. 6	40. 8	23. 3	34. 5	36. 7

<sup>1</sup> Deaf-mutes, exclusive of those reported as 16 years of age or over when hearing was lost.

<sup>2</sup> Deaf persons unable to speak at all.

<sup>3</sup> Deaf persons unable to speak at all, for whom special schedules were returned.

<sup>4</sup> Persons reported as deaf and dumb by the population enumerators.

<sup>5</sup> Deaf-mutes reported by census enumerators and by schools, institutions, and organizations for the deaf.

### No. 57.—DEAF-MUTES BY SEX, RACE, AND NATIVITY, 1920

Division	Total number enumerated	Number for whom special schedules were returned					
		Total	Male	Female	White		Colored
					Native	Foreign-born	
United States.....	44, 885	35, 026	19, 166	15, 860	30, 805	2, 622	1, 596
New England.....	3, 093	2, 655	1, 447	1, 208	2, 266	380	9
Middle Atlantic.....	8, 361	6, 952	3, 825	3, 127	6, 070	789	93
East North Central.....	10, 770	8, 874	4, 936	3, 938	7, 951	796	127
West North Central.....	5, 812	4, 638	2, 546	2, 092	4, 221	331	86
South Atlantic.....	5, 946	4, 102	2, 230	1, 872	3, 345	63	694
East South Central.....	3, 745	2, 605	1, 365	1, 240	2, 283	15	307
West South Central.....	3, 902	2, 680	1, 421	1, 259	2, 408	30	242
Mountain.....	1, 211	924	519	405	843	62	19
Pacific.....	2, 045	1, 596	877	719	1, 418	156	22

### No. 58.—CAUSE OF DEAFNESS AND AGE AT WHICH HEARING WAS LOST: DEAF-MUTES FOR WHOM SPECIAL SCHEDULES WERE RETURNED, 1920

Cause of deafness	Total	Deaf at birth	Age at which hearing was lost				Age not reported
			Less than 5 years	5 to 9 years	Childhood (age not reported)	10 years or over	
All causes.....	35, 026	13, 513	16, 458	3, 516	621	250	663
Congenital.....	13, 513	13, 513	—	—	—	—	—
Scarlet fever.....	3, 346	—	2, 457	790	40	33	26
Meningitis.....	3, 237	—	2, 457	715	11	86	18
Brain fever.....	1, 514	—	1, 063	215	9	8	14
Falls and blows.....	1, 177	—	992	142	12	12	19
Measles.....	1, 083	—	919	141	11	5	7
Typhoid fever.....	642	—	456	167	5	1	3
Whooping cough.....	636	—	571	46	16	2	3
Diseases of the ear.....	464	—	417	31	11	2	3
Abscesses in the head.....	446	—	403	26	4	2	11
All other and unknown.....	9, 168	—	6, 718	1, 243	502	139	566

Source: Bureau of the Census, Department of Commerce.

**No. 59.—EDUCATION, ABILITY TO READ LIPS, AND MEANS OF COMMUNICATION OF DEAF-MUTES FOR WHOM SPECIAL SCHEDULES WERE RETURNED, 1920**

Class	United States	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
<b>Deaf-mutes, 5 years of age and over</b>	<b>34,726</b>	<b>2,637</b>	<b>6,896</b>	<b>8,800</b>	<b>4,598</b>	<b>4,065</b>	<b>2,571</b>	<b>2,656</b>	<b>919</b>	<b>1,564</b>
Having attended school, total	30,565	2,385	6,259	7,924	4,178	3,263	2,070	2,197	794	1,495
School for the deaf	29,867	2,327	6,164	7,730	4,066	3,179	2,010	2,147	773	1,471
School other than for the deaf	698	58	95	194	112	84	60	50	21	24
Not having attended school, total	3,917	224	589	823	402	775	472	441	117	74
Reporting instruction at home	163	11	28	33	7	26	23	25	5	5
Reporting no instruction	3,754	213	561	790	395	749	449	416	112	69
Not reporting as to education	244	28	48	53	18	27	29	18	8	15
<b>Deaf-mutes, 10 years of age and over</b>	<b>31,230</b>	<b>2,349</b>	<b>6,132</b>	<b>7,926</b>	<b>4,245</b>	<b>3,665</b>	<b>2,276</b>	<b>2,405</b>	<b>821</b>	<b>1,411</b>
Able to read lips	16,901	1,634	3,829	4,035	2,006	1,922	1,094	1,069	498	764
Not able to read lips	12,521	585	2,023	3,464	1,923	1,443	952	1,257	290	584
Not reporting as to ability to read lips	1,808	80	280	427	316	300	230	79	33	63
<b>Means of communication</b>										
Speech and other means	12,286	1,360	3,006	2,963	1,422	1,252	599	693	373	618
Not speech but other means	17,434	915	2,894	4,632	2,657	2,032	1,519	1,600	416	769
None	606	31	95	132	87	105	66	56	15	19
Not reported	1,510	74	232	331	166	381	158	112	32	24

**No. 60.—OCCUPATIONS OF DEAF-MUTES FOR WHOM SPECIAL SCHEDULES WERE RETURNED, 1920**

Occupation	Total	Male				Female			
		All classes	White		Colored	All classes	White		Colored
			Native	Foreign born			Native	Foreign born	
<b>Number, 10 years of age and over</b>	<b>31,230</b>	<b>17,178</b>	<b>14,968</b>	<b>1,456</b>	<b>762</b>	<b>14,064</b>	<b>12,270</b>	<b>1,100</b>	<b>684</b>
Not gainfully employed	18,552	6,980	6,212	427	341	11,572	10,265	830	477
Receiving State or county aid	836	471	404	43	24	365	320	25	20
Gainfully employed	12,678	10,196	8,746	1,029	421	2,482	2,005	270	207
<b>Occupation of those gainfully employed</b>									
Agriculture, forestry, etc.	3,016	2,664	2,315	151	198	352	255	26	71
Farmers	2,183	1,958	1,732	113	113	225	176	18	31
Laborers	762	649	535	37	77	113	65	8	40
Extraction of minerals	64	64	66	7	1				
Manufacturing, etc.	7,269	6,180	5,284	757	139	1,089	921	141	27
Carpenters and cabinetmakers	438	438	374	58	6				
Compositors	521	507	454	52	1	14	13		1
Dressmakers and seamstresses	293					293	248	34	11
Laborers, building	782	755	612	88	55	27	19	2	6
Transportation and communication	143	139	116	12	11	4	4		
Trade	241	203	176	19	8	38	32	6	
Public service	45	41	36	4	1	4	4		
Professional service	290	222	204	15	3	68	63	5	
Domestic and personal service	1,072	347	265	36	46	725	552	73	100
Clerical occupations	235	182	165	16	1	53	51	2	
Unclassified	303	154	129	12	13	149	123	17	9

Source: Bureau of the Census, Department of Commerce

## No. 61.—BLIND POPULATION ENUMERATED: 1880 to 1920

Division	Number on date of enumeration					Ratio per 100,000 population				
	1880	1890	1900	1910	1920	1880	1890	1900	1910	1920
United States.....	48,928	50,568	64,763	57,272	52,567	97.6	80.8	85.2	82.3	49.7
New England.....	4,841	4,367	4,846	4,090	4,699	108.2	92.9	86.7	62.4	63.5
Middle Atlantic.....	9,726	9,154	10,931	10,001	9,374	92.7	72.1	70.7	51.8	42.1
East North Central.....	10,177	11,229	14,666	11,731	12,234	90.8	83.4	91.7	64.3	57.0
West North Central.....	8,047	6,319	8,714	6,679	6,111	82.0	71.1	84.2	57.4	48.7
South Atlantic.....	8,394	7,367	8,159	8,279	6,694	110.5	88.8	87.7	67.9	47.8
East South Central.....	6,612	6,190	8,221	7,019	4,935	118.4	96.3	108.9	83.5	55.5
West South Central.....	3,192	3,640	5,264	5,621	4,258	95.7	80.1	80.6	64.0	41.6
Mountain.....	661	762	1,807	1,787	1,906	101.2	65.9	78.0	67.9	57.1
Pacific.....	778	1,040	1,655	2,065	2,356	69.8	55.6	68.5	49.3	42.3

## No. 62.—TOTAL BLIND ENUMERATED AND SEX, RACE, AND NATIVITY OF THOSE FOR WHOM SPECIAL SCHEDULES WERE RETURNED, 1920

Division	Total number enumerated	Number for whom special schedules were returned					
		Total	Male	Female	White		Colored
					Native	Foreign born	
United States.....	52,567	40,913	23,977	16,936	30,313	6,327	4,273
New England.....	4,699	4,184	2,311	1,873	3,004	1,104	76
Middle Atlantic.....	9,374	7,807	4,430	3,377	5,824	1,686	297
East North Central.....	12,234	10,253	5,924	4,329	8,012	1,785	456
West North Central.....	6,111	4,881	2,905	1,976	3,786	828	267
South Atlantic.....	6,694	4,694	2,778	1,816	3,000	122	1,472
East South Central.....	4,935	3,871	2,062	1,809	2,427	49	895
West South Central.....	4,258	2,716	1,611	1,105	1,990	115	611
Mountain.....	1,906	1,400	887	513	1,067	229	104
Pacific.....	2,356	1,707	1,060	638	1,203	400	95

## No. 63.—CAUSE OF BLINDNESS AND AGE AT WHICH VISION WAS LOST: BLIND PERSONS FOR WHOM SPECIAL SCHEDULES WERE RETURNED, 1920

Cause of blindness	Total	Blind at birth	Age at which vision was lost						
			Less than 5 years	5 to 9 years	10 to 19 years	20 to 44 years	45 to 64 years	65 years or over	Age not reported
All causes.....	40,913	3,978	4,362	2,478	3,259	8,445	8,713	7,853	1,825
Congenital.....	2,635	2,635	—	—	—	—	—	—	—
Ophthalmia neonatorum.....	1,198	228	825	10	11	3	—	—	121
Measles.....	526	1	208	151	97	46	9	2	17
Scarlet fever.....	416	1	159	111	66	40	13	6	11
Measles.....	797	2	197	134	136	171	83	47	27
Trachoma.....	555	3	37	43	90	164	130	53	35
Atrophy of the nerve.....	1,756	112	79	80	120	577	514	227	47
Accidental injury.....	5,913	25	340	655	923	2,181	1,156	482	151
Disease of the retina.....	497	13	25	13	38	134	159	97	18
Glaucoma.....	1,932	14	27	11	54	259	898	621	48
Cataract.....	4,896	400	181	100	147	449	1,169	2,274	176
All other and unknown.....	19,792	544	2,289	1,170	1,577	4,412	4,582	4,044	1,174

Source Bureau of the Census, Department of Commerce.

**No. 64.—EDUCATION AND ABILITY TO READ RAISED TYPE, OF BLIND 5 YEARS OF AGE AND OVER, FOR WHOM SPECIAL SCHEDULES WERE RETURNED, 1920**

Class	Age on date of enumeration								
	Total, 5 years and over	5 to 9 years	10 to 14 years	15 to 19 years	20 to 24 years	25 to 44 years	45 to 64 years	65 years or over	Not re- ported
All classes.....	40, 698	1, 057	2, 044	2, 074	1, 677	7, 119	10, 918	15, 384	425
Having attended school, total.....	20, 432	654	1, 767	1, 838	1, 433	4, 920	5, 230	4, 390	200
School for the blind.....	12, 647	630	1, 688	1, 739	1, 296	3, 699	2, 619	838	138
School other than for the blind.....	7, 785	24	79	99	137	1, 221	2, 611	3, 552	62
Not having attended school, total.....	19, 854	356	248	226	232	2, 171	5, 622	10, 802	197
Reporting instruction at home.....	1, 249	12	22	16	23	237	503	431	5
Reporting no instruction.....	18, 605	344	226	210	209	1, 934	5, 119	10, 371	192
Not reporting as to education.....	407	47	29	10	12	28	61	192	28
Reading raised type.....	11, 934	460	1, 421	1, 503	1, 152	3, 513	2, 660	1, 121	104
Not reading raised type.....	27, 804	488	481	420	449	3, 536	8, 148	13, 999	283
Not reporting as to ability to read raised type.....	955	109	142	151	76	70	105	264	38

Source Bureau of the Census, Department of Commerce.

**No. 65.—OCCUPATIONS OF BLIND PERSONS FOR WHOM SPECIAL SCHEDULES WERE RETURNED, 1920**

Occupation	Total	Male				Female			
		All classes	White		Col- ored	All classes	White		Col- ored
			Native	For- eign born			Native	For- eign born	
Number 10 years of age and over.....	39, 636	23, 261	16, 782	3, 873	2, 596	16, 385	12, 355	2, 443	1, 587
Not gainfully employed.....	32, 459	17, 344	12, 292	3, 066	1, 986	15, 115	11, 310	2, 321	1, 484
Receiving State or county aid.....	7, 741	4, 916	3, 588	804	524	2, 825	2, 210	383	232
Gainfully employed.....	7, 177	5, 907	4, 490	807	610	1, 270	1, 045	122	103
Occupation of those gainfully em- ployed.....									
Agriculture, etc.....	948	864	691	103	70	84	68	8	8
Farmers.....	714	660	518	86	56	54	41	8	5
Extraction of minerals.....	12	12	9	1	2				
Manufacturing, etc.....	3, 090	2, 470	1, 850	384	236	620	519	64	37
Broom makers.....	837	825	629	143	48	12	9	3	
Piano tuners.....	449	447	418	29		2	2		
Chair caners.....	476	381	242	68	71	95	75	7	13
Seamstresses and fancy workers.....	259					259	225	21	13
Transportation and communica- tion.....	110	92	82	5	5	18	17	1	
Trade.....	1, 264	1, 230	951	184	95	34	27	3	4
Hucksters and peddlers.....	320	311	228	57	26	9	8		1
Public service.....	34	28	23	4	1	6	6		
Professional service.....	1, 005	751	564	74	113	254	215	25	14
Musicians and teachers.....	506	387	302	37	48	119	102	7	10
Domestic and personal service.....	393	225	130	29	66	168	112	17	39
Clerical occupations.....	281	207	173	18	16	74	70	3	1
Unclassified.....	40	28	17	5	6	12	11	1	

Source Bureau of the Census, Department of Commerce.

**No. 66.—PAUPERS ENUMERATED IN ALMSHOUSES: 1880 TO 1923**

Division	Number on date of enumeration <sup>1</sup>					Ratio per 100,000 of population				
	1880	1890	1904	1910	1923	1880	1890	1904	1910	1923
<b>United States.....</b>	<b>66,203</b>	<b>73,044</b>	<b>81,764</b>	<b>84,198</b>	<b>78,090</b>	<b>132 0</b>	<b>116 6</b>	<b>100. 0</b>	<b>91 5</b>	<b>71. 5</b>
New England.....	9,835	9,500	11,495	11,886	9,529	245 2	202 1	193 5	181 4	125 1
Middle Atlantic.....	24,098	21,643	21,783	23,772	18,564	229 6	170 4	129 2	123 1	80 6
East North Central.....	16,474	20,279	21,127	21,358	21,405	147 0	150 5	125 7	117 0	96 0
West North Central.....	3,337	5,336	6,618	6,366	7,298	54 2	60 0	61 2	54 7	57. 1
South Atlantic.....	6,975	8,100	8,298	7,706	6,875	91 8	91 4	74 9	63 2	47 6
East South Central.....	3,361	4,240	4,768	4,266	4,097	60 2	66 0	60 7	50 7	45 4
West South Central.....	315	809	1,689	1,630	2,075	9 4	17 8	23 0	18 6	19 5
Mountain.....	152	367	1,283	1,652	1,778	23. 3	31 7	63 4	62 7	50 6
Pacific.....	1,656	2,770	4,703	5,562	6,469	148 6	148 0	153 6	132 7	109. 3

<sup>1</sup> June 1, 1880 and 1890, Jan. 1, 1904, 1910, and 1923

Source Bureau of the Census, Department of Commerce

**No. 67.—PAUPERS ENUMERATED IN ALMHOUSES: BY AGE GROUPS**

Age group	Number enumerated					Per cent distribution				
	1880	1890	1904	1910	1923	1880	1890	1904	1910	1923
<b>All ages.....</b>	<b>66,203</b>	<b>73,044</b>	<b>81,764</b>	<b>84,198</b>	<b>78,090</b>	<b>100 0</b>	<b>100 0</b>	<b>100 0</b>	<b>100 0</b>	<b>100. 0</b>
Under 15 years.....	8,885	5,627	2,755	2,370	1,896	13 4	7 7	3 4	2 8	2. 4
15 to 24 years.....	4,996	4,382	3,240	2,514	1,659	7 5	6 0	4 0	3 0	2. 1
25 to 44 years.....	17,609	17,077	13,573	11,994	7,427	26 6	23 4	16 6	14 2	9 5
45 to 59 years.....	12,807	15,037	18,810	20,613	15,104	19 3	20 6	23 0	24 5	19 3
60 to 74 years.....	14,307	18,865	26,803	30,189	32,371	21 6	25 8	32 8	35 9	41 5
75 years and over.....	7,599	10,714	15,034	15,843	18,763	11 5	14 7	18 4	18 8	24 0
Age unknown.....	-----	1,342	1,549	675	870	-----	1 8	1 9	8	1 1

Source Bureau of the Census, Department of Commerce

**No. 68.—PAUPERS ADMITTED TO ALMSHOUSES, AND DEPARTURES AND DEATHS, DURING 1922**

Division	Number admitted							Number de- parted	
	Total	Male	Female	White			Negro <sup>1</sup>	Dis- charges and trans- fers	Deaths
				Native	Foreign born	Nativ- ity un- known			
<b>United States.....</b>	<b>63,807</b>	<b>46,670</b>	<b>17,137</b>	<b>37,788</b>	<b>17,988</b>	<b>1,747</b>	<b>5,949</b>	<b>44,066</b>	<b>15,772</b>
New England.....	10,036	6,918	3,118	5,971	3,600	200	256	8,009	2,035
Middle Atlantic.....	14,250	10,466	3,784	8,294	4,859	382	693	11,094	3,287
East North Central.....	15,604	11,985	3,619	9,224	4,761	410	1,182	10,393	4,159
West North Central.....	4,137	3,161	976	2,759	974	184	213	2,535	1,072
South Atlantic.....	6,396	4,067	2,329	3,289	413	188	2,493	3,061	1,787
East South Central.....	2,128	1,318	810	1,403	30	29	663	1,119	775
West South Central.....	1,723	1,190	533	1,140	193	66	316	847	401
Mountain.....	2,375	1,743	632	1,529	666	99	37	1,557	541
Pacific.....	7,158	5,822	1,336	4,179	2,492	189	90	4,851	1,715

<sup>1</sup> Figures for other colored races amounting to 335 in all, insignificant except in Pacific division.

Source: Bureau of the Census, Department of Commerce

**No. 69.—MENTAL PATIENTS, FEEBLE-MINDED AND EPILEPTICS IN STATE INSTITUTIONS AND PRISONERS IN STATE AND FEDERAL PRISONS AND REFORMATORIES: 1904 to 1928**

Year	State hospitals for mental disease <sup>1</sup>				State institutions for feeble-minded and epileptics <sup>2</sup>				Prisons and reformatories <sup>3</sup>			
	First admissions		Patients present on a given date <sup>4</sup>		First admissions		Patients present on a given date <sup>4</sup>		Prisoners received from the courts during the year		Prisoners present on a given date <sup>4</sup>	
	Number	Per 100,000 population <sup>5</sup>	Number	Per 100,000 population <sup>6</sup>	Number	Per 100,000 population <sup>5</sup>	Number	Per 100,000 population <sup>6</sup>	Number	Per 100,000 population <sup>5</sup>	Number	Per 100,000 population <sup>(7)</sup>
1904.....			129,222	158 0					27,740	33 6	57,070	69 1
1910.....			159,096	176 2			17,411	18 9	29,710	32 3	68,735	74 7
1922.....	50,286	46 2	222,406	205 8	7,467	6 9	43,579	39 9				
1923.....			229,664	209 4			46,580	42 1	38,628	34 6	81,959	74 0
1926.....	52,793	46 0	246,486	216 3	8,171	7 0	55,201	47 8	47,114	41 7	90,394	80 7
1927.....	56,288	47 4	256,858	217 9	8,353	7 3	58,367	49 5	48,516	44 6	96,355	85 0
1928.....			264,519	221 7			60,490	52 2			98,724	90 4

<sup>1</sup> Includes two Federal hospitals—St. Elizabeths, District of Columbia, and Asylum for Insane Indians, South Dakota

<sup>2</sup> Includes one Federal institution, the District of Columbia Training School

<sup>3</sup> Includes Federal civil prisons and State penal institutions used entirely or chiefly for adult offenders convicted of felonies.

<sup>4</sup> June 30, 1904, and, in general, Jan. 1 of other years, but data for a few hospitals relate to other dates.

<sup>5</sup> Based on enumerated population Apr. 15, 1910, and estimated population July 1 of other years.

<sup>6</sup> Based on enumerated population Apr. 15, 1910, and estimated population Jan. 1 of other years.

<sup>7</sup> Figure represents "major offenders," but is substantially comparable to other figures here given.

<sup>8</sup> Exclusive of prisoners committed for nonpayment of fine.

<sup>9</sup> Does not include seven special State institutions for epileptics, included for later enumerations

**No. 70.—STATE HOSPITALS FOR MENTAL DISEASE: FIRST ADMISSIONS DURING 1922, 1926, AND 1927, BY PSYCHOSIS <sup>1</sup>**

Psychosis	Number			Per 100,000 population		
	1922 <sup>2</sup>	1926	1927	1922	1926	1927
Grand total.....	52,472	52,793	56,288	47 7	45 1	47 4
With psychosis, total.....	49,118	50,090	53,589	44 7	42 8	45 9
Traumatic.....	136	234	221	.1	.2	.2
Senile.....	5,101	5,506	5,592	4 6	4 7	4 7
With cerebral arteriosclerosis.....	3,045	4,201	4,826	2 8	3 6	4 1
General paralysis.....	4,977	4,652	5,024	4 5	4 0	4 2
With cerebral syphilis.....	589	723	839	.5	.6	.7
With Huntington's chorea.....	86	97	97	.1	.1	.1
With brain tumor.....	38	38	38	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
With other brain or nervous diseases.....	456	603	700	.4	.5	.6
Alcoholic.....	1,819	2,250	2,656	1 7	1 9	2 2
Due to drugs and other exogenous toxins.....	355	280	364	.3	.2	.3
With pellagra.....	339	514	789	.3	.4	.7
With other somatic diseases.....	1,285	1,387	1,618	1 2	1 2	1 4
Maniac-depressive.....	8,095	7,744	7,828	7 4	6 6	6 6
Involution melancholia.....	1,083	1,111	1,115	1 0	1 0	1 0
Dementia præcox (schizophrenia).....	11,887	11,799	12,441	10 8	10 9	10 8
Paranoia or paranoid conditions.....	1,266	859	965	1 2	1 3	1 3
Epileptic psychoses.....	1,013	1,474	1,600	1 4	1 3	1 3
Psychoneuroses and neuroses.....	1,063	852	1,043	1 0	.7	.9
With psychopathic personality.....	764	640	721	.7	.5	.6
With mental deficiency.....	1,615	1,703	2,061	1 5	1 5	1 7
Undiagnosed psychoses.....	3,142	1,720	1,781	2 9	1 5	1 5
Psychoses not reported.....	462	1,623	1,270	.4	1 4	1 1
Without psychosis, total.....	3,356	2,703	2,699	3 1	2 3	2 3
Epilepsy.....	( <sup>4</sup> )	( <sup>4</sup> )	82	-----	.1	.1
Alcoholism.....	( <sup>4</sup> )	393	584	-----	.3	.5
Drug addiction.....	( <sup>4</sup> )	427	401	-----	.4	.3
Psychopathic personality.....	( <sup>4</sup> )	210	130	-----	.2	.1
Mental deficiency.....	( <sup>4</sup> )	798	594	-----	.7	.5
Others without psychosis.....	( <sup>4</sup> )	764	928	-----	.7	.8

<sup>1</sup> Includes two Federal hospitals—St. Elizabeths, District of Columbia, and Asylum for Insane Indians, South Dakota

<sup>2</sup> Figures include 2,136 admissions to three State psychopathic hospitals in Iowa, Massachusetts, and Michigan, which were not separately tabulated by psychosis.

<sup>3</sup> Less than one-tenth of 1 per 100,000. <sup>4</sup> Separate figures not available

Source of Tables 69 and 70: Bureau of the Census, Department of Commerce.

## 72 MENTAL PATIENTS, FEEBLE-MINDED, AND EPILEPTICS

### No. 71.—PATIENTS IN HOSPITALS FOR MENTAL DISEASE: 1880 TO 1923

Division	Number on date of enumeration <sup>1</sup>					Ratio per 100,000 of population				
	1880 <sup>2</sup>	1890 <sup>2</sup>	1904	1910	1923	1880	1890	1904	1910	1923
United States.....	40, 942	74, 028	150, 151	187, 791	3267, 617	81 6	118 2	183 6	204 2	245 0
New England.....	5, 294	7, 693	14, 855	19, 580	26, 876	132 0	163 7	250 1	298 8	352 7
Middle Atlantic.....	12, 710	21, 435	42, 562	52, 380	70, 535	121 1	168 8	252 5	271 2	306.4
East North Central.....	8, 966	15, 674	33, 039	41, 246	56, 881	80 0	116 2	196 6	226 0	255 0
West North Central.....	3, 493	8, 641	18, 595	22, 683	31, 355	56 7	97 2	171 9	194 9	245 4
South Atlantic.....	4, 660	9, 007	16, 314	19, 952	28, 637	61 3	101 7	149 1	163 6	198 1
East South Central.....	2, 549	4, 493	7, 867	9, 759	13, 450	45 6	69 9	100 1	116 0	149 1
West South Central.....	800	2, 043	6, 010	8, 413	14, 936	24 0	45 0	81 8	95 8	140 7
Mountain.....	107	858	2, 529	3, 574	6, 471	16 4	74 2	125 0	135 7	184 0
Pacific.....	2, 363	4, 184	8, 180	10, 204	18, 476	212 0	223 6	257 2	243 4	312 1

<sup>1</sup> June 1, 1880 and 1890, Jan. 1, 1904, 1910, and 1923

<sup>2</sup> Total number of insane enumerated, including those not in hospitals in 1880 and 1890, was 91,959 and 106,485, respectively

<sup>3</sup> Includes patients of 1 State and 11 private hospitals for whom individual schedules were not received.

### No. 72.—PATIENTS IN HOSPITALS FOR MENTAL DISEASE: BY AGE GROUPS

Age group	Number enumerated				Per cent distribution			
	1890	1904	1910	1923	1890	1904	1910	1923
All ages.....	74, 028	150, 151	187, 791	265, 829	100. 0	100 0	100 0	100 0
Under 15 years.....	51	112	341	634	0 1	0 1	0 2	0 2
15 to 24 years.....	4, 621	8, 625	10, 113	14, 110	6 2	5 7	5 4	5 3
25 to 44 years.....	36, 346	66, 719	79, 351	109, 757	49 1	44 4	42 3	41 3
45 to 59 years.....	21, 727	45, 855	60, 142	82, 240	29 3	30 5	32 0	30 9
60 to 74 years.....	8, 402	21, 111	28, 537	45, 429	11. 3	14. 1	15 2	17 1
75 years and over.....	1, 351	4, 217	6, 073	9, 759	1. 8	2 8	3 2	3 7
Age unknown.....	1, 530	3, 512	3, 234	3, 900	2. 1	2 3	1 7	1 5

### No. 73.—PATIENTS ADMITTED TO HOSPITALS FOR MENTAL DISEASE DURING 1922: BY PSYCHOSIS

Psychosis	All classes		Male	Female	White			Colored
	Number	Per cent distribution			Native	Foreign-born	Native-unknown	
All clinical groups.....	71, 676	100 0	41, 714	29, 962	45, 824	15, 411	4, 265	6, 176
Senile.....	6, 845	9 5	3, 563	3, 282	3, 952	1, 883	518	492
With cerebral arteriosclerosis.....	3, 438	4 8	2, 233	1, 205	2, 028	985	225	200
General paralysis.....	6, 294	8 8	5, 076	1, 218	3, 720	1, 427	438	709
With cerebral syphilis.....	893	1 2	637	256	467	127	59	240
Alcoholic.....	2, 693	3 8	2, 427	266	1, 464	881	235	113
Maniac-depressive.....	11, 393	15 9	4, 880	6, 513	7, 276	2, 374	610	1, 133
Involution melancholia.....	1, 803	2 5	560	1, 243	1, 252	420	95	36
Dementia præcox (schizophrenia).....	15, 526	21 7	8, 950	6, 576	9, 875	3, 651	609	1, 391
Paranoia or paranoid conditions.....	1, 881	2 6	873	1, 008	1, 213	485	85	98
Epileptic.....	1, 813	2 5	1, 121	692	1, 279	205	74	255
Psychoneuroses and neuroses.....	2, 777	3 9	1, 658	1, 119	2, 145	457	119	56
With psychopathic personality.....	914	1 3	585	329	688	152	23	51
With mental deficiency.....	1, 899	2 6	1, 076	823	1, 438	210	76	175
All other and unknown.....	13, 507	18 8	8, 075	5, 432	9, 027	2, 154	1, 099	1, 227

Source: Bureau of the Census, Department of Commerce.



**No. 74.—STATE HOSPITALS FOR MENTAL DISEASE AND STATE INSTITUTIONS FOR FEEBLE-MINDED AND EPILEPTICS: FIRST ADMISSIONS DURING THE YEAR AND NUMBER PRESENT, BY STATES**

Division and State	Hospitals for mental disease						Institutions for the feeble-minded and epileptics					
	First admissions during the year				Patients present at beginning of year		First admissions during the year				Patients present at beginning of year	
	Number			Per 100,000 population 1927 <sup>1</sup>			Number			Per 100,000 population 1927 <sup>1</sup>		
	1922	1926 <sup>2</sup>	1927		1923	1928	1922	1926 <sup>2</sup>	1927 <sup>2</sup>		1923	1928
United States.....	50,286	52,793	56,288	47	229,664	264,519	7,467	8,171	8,353	7	46,580	60,411
New England.....	5,013	5,109	4,888	60	25,167	28,268	755	795	830	10	6,033	7,771
Maine.....	339	371	401	51	1,838	1,960	104	71	43	5	467	683
New Hampshire.....	306	375	307	68	1,399	1,575	38	50	41	9	393	431
Vermont.....	164	160	152	43	784	838	53	22	19	5	179	235
Massachusetts.....	2,940	2,892	2,740	65	15,285	17,211	453	500	521	12	4,062	5,270
Rhode Island.....	346	392	376	53	1,485	1,762	36	72	62	9	377	439
Connecticut.....	918	950	907	55	4,376	4,916	39	80	144	9	555	710
Middle Atlantic.....	10,060	11,091	11,976	48	55,145	63,461	2,011	1,739	2,052	8	12,888	15,343
New York.....	7,213	7,711	8,473	74	39,510	45,131	1,424	1,092	1,322	12	7,239	9,158
New Jersey.....	1,317	1,288	1,402	37	5,090	6,002	277	300	291	8	1,777	2,490
Pennsylvania.....	1,525	2,092	2,101	22	10,545	12,328	310	347	439	5	3,372	3,695
East North Central.....	10,943	11,181	11,397	46	46,044	51,346	2,064	2,769	2,470	10	12,714	17,451
Ohio.....	2,708	3,215	3,300	49	12,811	14,860	520	957	896	13	4,229	5,723
Indiana.....	955	1,231	1,007	32	5,780	6,340	226	333	298	10	1,945	2,541
Illinois.....	5,053	4,353	4,658	64	18,764	20,904	423	743	699	10	2,625	4,190
Michigan.....	1,236	1,313	1,288	29	7,392	7,937	659	533	385	9	2,688	3,431
Wisconsin.....	991	1,069	1,144	39	1,297	1,805	236	208	192	7	1,227	1,566
West North Central.....	4,988	5,124	5,295	40	25,573	28,670	825	927	927	10	7,221	8,495
Minnesota.....	1,295	1,309	1,280	48	6,632	7,110	197	200	263	10	1,857	2,033
Iowa.....	939	920	970	40	5,002	5,420	239	243	249	10	1,964	2,367
Missouri.....	1,139	1,182	1,293	37	5,242	5,857	37	62	( <sup>3</sup> )	( <sup>3</sup> )	587	( <sup>3</sup> )
North Dakota.....	242	236	236	37	1,269	1,444	31	104	59	9	338	520
South Dakota.....	168	201	202	29	1,207	1,366	79	47	50	7	424	424
Nebraska.....	571	599	639	46	2,926	3,352	91	85	56	4	751	851
Kansas.....	632	677	675	37	3,295	3,321	151	186	145	8	1,300	1,414
South Atlantic.....	6,493	7,168	7,647	48	26,789	31,964	658	670	779	5	2,693	3,849
Delaware.....	96	103	129	53	518	579	24	11	32	13	50	115
Maryland.....	628	640	686	43	3,297	3,663	68	54	62	4	755	760
Dist. of Columbia.....	888	641	502	93	3,931	3,780	( <sup>4</sup> )	7	49	9	( <sup>4</sup> )	107
Virginia.....	1,360	1,269	1,322	52	5,012	5,889	75	115	113	4	533	798
West Virginia.....	687	725	701	41	2,134	2,510	119	153	85	5	547	735
North Carolina.....	851	1,162	1,373	47	3,575	4,899	207	160	193	7	501	849
South Carolina.....	643	601	823	45	2,400	2,709	23	39	101	6	123	437
Georgia.....	652	953	965	30	3,972	4,536	9	18	29	1	44	91
Florida.....	688	1,024	1,130	83	1,950	2,799	133	123	115	8	140	311
East South Central.....	3,529	3,810	4,172	45	12,638	14,665	35	142	188	2	497	1,245
Kentucky.....	1,169	1,161	1,209	48	4,635	4,973	22	29	26	1	425	456
Tennessee.....	811	744	926	37	2,746	3,282	( <sup>4</sup> )	65	124	5	( <sup>4</sup> )	359
Alabama.....	627	897	981	39	2,718	3,420	( <sup>4</sup> )	34	23	1	( <sup>4</sup> )	297
Mississippi.....	922	1,008	1,056	59	2,537	2,990	13	14	15	1	72	133
West South Central.....	3,330	3,467	3,810	35	14,321	18,081	331	383	399	3	1,297	2,127
Arkansas.....	731	( <sup>5</sup> )	1,137	59	1,990	2,679	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
Louisiana.....	547	592	624	32	3,022	3,673	99	54	39	2	130	256
Oklahoma.....	695	1,078	1,126	47	2,873	3,794	54	72	63	3	330	549
Texas.....	1,357	1,815	1,580	29	6,436	7,935	178	257	297	6	837	1,322
Mountain.....	1,447	1,596	1,690	40	6,221	7,211	156	134	134	3	724	1,103
Montana.....	317	311	293	41	1,438	1,472	14	( <sup>4</sup> )	56	8	91	300
Idaho.....	144	111	131	25	609	653	58	24	22	4	253	301
Wyoming.....	61	52	54	22	309	394	36	17	18	8	125	169
Colorado.....	399	377	487	45	2,017	2,435	48	39	38	4	255	333
New Mexico.....	92	( <sup>3</sup> )	149	38	392	520	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
Arizona.....	209	169	181	39	554	704	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
Utah.....	183	173	241	46	697	809	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
Nevada.....	42	64	60	78	205	224	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
Pacific.....	4,471	4,561	4,847	70	17,673	20,780	632	666	679	10	3,013	3,921
Washington.....	871	927	907	58	3,765	4,251	165	140	131	8	803	938
Oregon.....	709	686	765	86	2,406	3,191	162	131	76	9	675	814
California.....	2,891	2,948	3,175	72	11,507	13,318	305	395	472	11	1,535	2,169
Federal Hospital for Indians.....	14	7	5	-----	90	93	-----	-----	-----	-----	-----	-----

<sup>1</sup> Based on estimated population as of July 1.

<sup>2</sup> No census report received.

<sup>3</sup> Total excludes data for States for which no census reports were received.

<sup>4</sup> No separate institution in operation.

<sup>5</sup> Figure incomplete.

Source: Bureau of the Census, Department of Commerce

## No. 75.—PRISONERS IN ALL PENAL INSTITUTIONS: 1880 TO 1923

Division	Number on date of enumeration <sup>1</sup>				Ratio per 100,000 of population			
	1880	1904	1910	1923	1880	1904	1910	1923
United States.....	49,527	81,772	99,199	104,037	98.7	99.0	107.9	94.6
New England.....	4,770	8,599	9,698	5,746	118.9	143.6	148.0	75.0
Middle Atlantic.....	13,815	18,790	22,165	20,150	131.6	110.2	114.8	87.0
East North Central.....	7,769	12,042	13,476	19,281	69.3	71.2	73.8	85.8
West North Central.....	3,768	7,828	8,216	9,823	61.2	71.9	70.6	76.6
South Atlantic.....	6,895	10,740	14,915	15,703	90.8	96.2	122.3	108.0
East South Central.....	5,197	7,524	10,384	9,648	93.1	95.2	123.5	106.7
West South Central.....	4,192	7,090	8,419	8,935	125.7	95.0	95.8	83.6
Mountain.....	743	2,954	4,171	3,322	113.8	142.6	158.4	93.5
Pacific.....	2,378	4,564	5,851	6,795	213.4	144.8	139.6	113.4

<sup>1</sup> June 1, 1880; June 30, 1904, Jan. 1, 1910 and 1923 Includes only sentenced prisoners, exclusive of those imprisoned for nonpayment of fine

<sup>2</sup> Including prisoners in Federal prisons, as follows 1,641 in 1904, 1,904 in 1910, and 4,664 in 1923

## No. 76.—PRISONERS ENUMERATED IN ALL PENAL INSTITUTIONS JANUARY 1, 1923, AND COMMITMENTS DURING THE YEAR: BY CLASSES

NOTE.—See Tables 69 and 80, for prisoners in prisons and reformatories, 1927 and earlier years

Class	Number present Jan. 1	Commitments during 1923		Age group	Number present Jan. 1	Commitments during 1923	
		Number <sup>1</sup>	Per 100,000 population of same class			Number <sup>1</sup>	Per 100,000 population of same group
All classes.....	109,075	357,493	325.1	Under 18 years.....	2,230	7,195	126.5
Male.....	103,833	328,820	610.1	18 to 20 years.....	11,739	31,086	562.9
Female.....	5,192	28,673	55.3	21 to 24 years.....	21,439	52,766	703.9
				25 to 34 years.....	37,336	100,007	582.9
				35 to 44 years.....	20,537	80,829	572.4
White, total.....	73,549	266,857	281.4	45 to 64 years.....	13,133	60,838	357.2
Native.....	58,238	194,179	239.4	65 years and over.....	1,284	4,931	100.0
Foreign born.....	15,061	66,990	488.5	Age unknown.....	1,277	19,841	-----
Nativity unknown.....	250	5,688	-----				
Negro.....	34,178	83,399	797.1				
Other and unknown.....	1,348	7,237	666.9				

<sup>1</sup> Estimate based on reported commitments during first six months

<sup>2</sup> Figures for prisoners and population 18 years of age and over afford a more accurate basis of comparison between the native and the foreign born white, on this basis ratios are 404.1 and 517.5 respectively.

## No. 77.—PRISONERS AND JUVENILE DELINQUENTS ENUMERATED JANUARY 1, 1923, AND COMMITMENTS DURING THE YEAR

Division	Number present Jan. 1			Commitments during 1923 <sup>1</sup>					
	Prisoners in—		Juvenile delinquents in institutions <sup>4</sup>	Prisoners to—		Juveniles to institutions <sup>4</sup>	Under 10 years of age	10 to 17 years of age	
	Prisons and reformatories <sup>2, 3</sup>	Jails and workhouses <sup>3</sup>		Prisons and reformatories <sup>3</sup>	Jails and workhouses <sup>3</sup>			Number	Per 100,000 of same age
United States.....	81,479	28,140	99,468	37,585	319,908	25,909	344	25,565	156.5
New England.....	3,527	2,421	2,718	1,610	18,919	2,352	40	2,312	229.8
Middle Atlantic.....	12,526	8,180	7,104	4,747	76,228	6,000	168	5,832	185.7
East North Central.....	15,751	5,308	5,434	7,537	70,351	5,145	12	5,133	168.9
West North Central.....	8,566	1,698	3,366	4,024	26,799	2,227	22	2,205	113.5
South Atlantic.....	11,382	5,919	4,751	4,010	46,748	4,539	52	4,437	180.8
East South Central.....	8,498	1,351	1,643	2,961	15,657	1,464	12	1,452	102.6
West South Central.....	8,379	965	1,820	4,730	20,866	2,093	8	2,085	110.8
Mountain.....	2,933	603	1,202	1,681	11,061	866	20	846	195.9
Pacific.....	5,253	1,790	1,424	2,582	33,279	1,203	10	1,193	173.8

<sup>1</sup> See footnote 1, Table 76

<sup>2</sup> See footnote 1, Table 55.

<sup>3</sup> "Jails and workhouses" includes data for houses of correction in Rhode Island and Maryland included with "Prisons and reformatories" in Tables 69 and 80

<sup>4</sup> Including those in special institutions and prisoners under 18 years of age in penal institutions not primarily for juvenile delinquents See Table 76

<sup>5</sup> Including those in United States penitentiaries

<sup>6</sup> Including 3,703 committed to Federal prisons.

Source. Bureau of the Census, Department of Commerce.

# No. 78.—PRISONERS ENUMERATED AND COMMITMENTS: BY PRINCIPAL OFFENSES

Offense	Number				Per cent distribution				Commitments per 100,000 population	
	Present Jan 1		Commitments		Present Jan 1		Commitments			
	1910	1923	1910	1923 <sup>1</sup>	1910	1923	1910	1923	1910	1923
Total.....	111,498	109,075	478,787	357,493	100 0	100 0	100 0	100 0	521 7	325.1
Drunkenness.....	8,585	2,728	170,941	91,367	7 7	2 5	35 6	25 6	185 9	83.1
Disorderly conduct.....	5,119	2,434	91,847	53,359	4 6	2 2	19 1	14 9	98.9	48.5
Violating liquor laws.....	2,148	5,901	7,713	39,340	1.9	5.4	1 6	11 0	8 4	35 8
Vagrancy.....	6,004	2,487	49,670	28,030	5 4	2 3	10 4	7 8	54 0	25 5
Larceny.....	21,397	17,462	39,338	27,141	19.2	16.0	8.2	7.6	42 8	24.7
Assault.....	9,719	5,891	22,509	12,606	8 7	5 4	4 7	3 5	24.5	11.5
Violating traffic laws.....	( <sup>2</sup> )	282	( <sup>2</sup> )	11,493	( <sup>2</sup> )	.3	( <sup>2</sup> )	3 2	( <sup>2</sup> )	10 5
Violating city ordinances.....	305	165	5,098	10,116	.3	.2	1 1	2 8	5 5	9 2
Burglary.....	16,268	16,580	8,105	8,574	14 6	15 2	1 7	2 4	8 8	7 8
Violating drug laws.....	123	3,545	314	7,103	.1	3 3	.1	2.0	.3	6.5
Carrying concealed weapons.....	1,239	1,338	6,460	5,642	1 1	1 2	1.3	1.6	7 0	5.1
Formation and prostitution.....	825	940	6,029	5,114	7	9	1.3	1 4	6 6	4 7
Fraud.....	1,481	1,125	8,924	4,766	1 3	1 0	1.9	1 3	9 7	4 3
Forgery.....	3,145	4,759	2,063	4,093	2 8	4 4	.4	1.1	2 2	3.7
Homicide.....	14,257	15,941	2,876	3,906	12 8	14 6	.6	1 1	3 1	3.6
Gambling.....	734	92	6,893	4,035	7	.1	1 4	1 1	7 5	3 7
Robbery.....	4,729	9,269	1,657	3,584	4 2	8 5	.3	1 0	1 8	3 3
Malignous mischief and trespassing.....	478	241	9,997	3,703	.4	.2	2.1	1.0	10.9	3.4
Nonsupport or neglect of family.....	626	859	2,793	3,660	.6	.8	.6	1.0	3 0	3.3
Rape.....	4,465	4,662	1,406	2,140	4 0	4 3	3	.6	1 5	2.0
All other classified offenses.....	8,212	9,119	24,399	17,193	7 4	8 4	5 1	4 8	26 5	15.6
Unclassified and unknown.....	1,639	3,265	10,755	10,519	1 5	3 0	2 2	2.9	11 7	9.6

<sup>1</sup> Enumerated for the period Jan 1 to June 30, estimated for the rest of the year

<sup>2</sup> Not separately shown in 1910. Commitments for this offense were included under "Violating city ordinances"

# No. 79.—PRISONERS ENUMERATED AND COMMITMENTS: BY NATURE AND LENGTH OF SENTENCE

Sentence	Number				Per cent distribution			
	Present Jan 1		Commitments		Present Jan. 1		Commitments	
	1910	1923	1910	1923 <sup>1</sup>	1910	1923	1910	1923
Total.....	111,498	109,075	478,787	357,493	100 0	100 0	100.0	100.0
Death.....	143	92	130	116	.1	.1	( <sup>2</sup> )	( <sup>2</sup> )
Imprisonment for—								
Life.....	6,444	7,548	783	914	5.8	6.9	.2	.3
Definite term.....	71,112	51,003	182,641	156,185	63.8	46.8	38.1	43.7
1 year or more.....	47,704	37,325	21,357	24,526	42.8	34.2	4.6	6.9
Less than 1 year.....	23,408	13,678	161,284	131,659	21 0	12 5	33 6	36 8
Indeterminate period.....	21,083	43,705	15,005	23,312	18.9	40.1	3.1	6.5
Minority.....	134	126	50	59	.1	.1	( <sup>2</sup> )	( <sup>2</sup> )
Nonpayment of fine.....	12,299	5,552	278,914	169,333	11.0	5.1	58.1	47.4
Nature and length of sentence unknown.....	283	1,049	2,264	7,574	.3	1.0	.5	2.1

<sup>1</sup> Enumerated for the period Jan. 1 to June 30; estimated for the rest of the year.

<sup>2</sup> Less than one-tenth of 1 per cent.

Source Bureau of the Census, Department of Commerce.

**No 80.—STATE AND FEDERAL PRISONS AND REFORMATORIES: ADMISSIONS  
DURING THE YEAR AND NUMBER PRESENT ON JANUARY 1, BY STATES**

Division and State	Prisoners received from courts during the year						Prisoners present on Jan. 1					
	Number				Per 100,000 population <sup>1</sup>		Number				Per 100,000 population <sup>1</sup>	
	1910	1923	1926	1927	1910	1927	1910	1923	1927	1928	1910	1923
<b>United States</b> .....	29,710	38,628	47,114	48,516	32	44	68,735	81,959	96,355	98,724	75	89
<b>Federal prisons and reformatories</b> .....	987	3,703	5,010	5,021	1	4	1,904	4,664	6,803	7,722	2	7
<b>State prisons and reformatories</b> .....	28,723	34,925	42,104	43,495	32	40	66,831	77,295	89,552	91,002	73	88
<b>New England</b> .....	2,070	1,847	1,952	---	---	---	3,510	3,638	4,164	---	---	---
Maine.....	69	202	210	182	9	23	201	379	412	384	27	48
New Hampshire.....	43	35	33	50	10	11	147	138	133	126	34	28
Vermont.....	( <sup>2</sup> )	277	285	245	( <sup>2</sup> )	---	170	310	388	334	48	( <sup>2</sup> )
Massachusetts.....	1,114	693	826	752	33	18	1,966	1,448	1,923	1,866	58	44
Rhode Island.....	668	294	197	196	121	28	421	466	338	304	78	51
Connecticut.....	186	346	401	411	17	25	605	891	920	910	54	57
<b>Middle Atlantic</b> .....	5,147	4,747	5,991	5,992	---	---	12,422	12,528	13,851	14,555	---	---
New York.....	3,188	2,666	3,290	2,917	35	26	7,073	6,316	7,298	7,531	78	66
New Jersey.....	814	825	1,170	1,228	32	35	1,839	1,912	2,383	2,519	73	67
Pennsylvania.....	1,145	1,256	1,531	1,743	15	18	3,510	4,298	4,170	4,505	46	46
<b>East North Central</b> .....	3,815	7,837	10,150	11,295	---	---	9,981	15,751	22,524	25,813	---	---
Ohio.....	1,115	2,264	3,180	3,640	23	54	2,561	4,234	6,209	7,531	54	111
Indiana.....	770	1,358	1,385	1,541	29	49	2,362	2,302	3,615	3,964	88	125
Illinois.....	844	1,387	1,728	1,821	15	25	2,509	4,416	6,038	6,379	45	87
Michigan.....	559	1,996	3,040	3,510	20	78	1,596	3,641	5,168	6,338	57	139
Wisconsin.....	527	532	817	783	23	27	953	1,158	1,494	1,601	41	55
<b>West North Central</b> .....	2,567	4,024	5,351	5,619	---	---	6,526	8,566	12,179	12,371	---	---
Minnesota.....	444	659	822	826	21	31	1,093	1,634	2,240	2,167	53	80
Iowa.....	333	753	665	760	15	31	963	1,794	2,044	2,157	43	89
Missouri.....	839	912	1,069	1,758	26	50	2,307	2,205	3,442	3,624	70	103
North Dakota.....	102	136	210	206	18	32	212	244	309	302	37	47
South Dakota.....	152	185	297	236	26	34	207	326	469	420	36	60
Nebraska.....	197	378	495	503	17	36	481	789	1,000	993	40	71
Kansas.....	500	1,001	1,253	1,830	30	73	1,264	1,574	2,675	2,708	75	148
<b>South Atlantic</b> .....	4,388	4,816	---	---	---	---	10,384	11,751	---	---	---	---
Maryland.....	1,700	1,390	1,882	2,239	131	140	1,675	1,483	1,921	2,095	129	130
Virginia.....	662	608	844	904	32	36	2,145	1,960	1,979	2,135	104	83
West Virginia.....	425	772	854	853	35	50	1,071	1,628	1,799	1,561	88	91
North Carolina.....	192	368	580	777	9	27	710	1,046	1,579	1,723	32	59
South Carolina.....	237	351	302	226	16	12	848	528	504	437	56	24
Georgia.....	744	876	942	( <sup>2</sup> )	29	( <sup>2</sup> )	2,638	3,738	2,945	( <sup>2</sup> )	101	( <sup>2</sup> )
Florida.....	428	451	( <sup>2</sup> )	( <sup>2</sup> )	57	( <sup>2</sup> )	1,297	1,368	( <sup>2</sup> )	( <sup>2</sup> )	172	( <sup>2</sup> )
<b>East South Central</b> .....	3,916	2,961	---	---	---	---	8,912	8,498	---	---	---	---
Kentucky.....	855	827	1,365	1,290	37	51	2,028	2,079	2,248	2,188	89	86
Tennessee.....	652	599	811	972	30	39	1,813	1,630	2,023	2,182	83	88
Alabama.....	1,785	1,057	( <sup>2</sup> )	( <sup>2</sup> )	84	( <sup>2</sup> )	3,381	3,169	( <sup>2</sup> )	( <sup>2</sup> )	158	( <sup>2</sup> )
Mississippi.....	621	478	649	( <sup>2</sup> )	35	( <sup>2</sup> )	1,690	1,620	1,503	( <sup>2</sup> )	94	( <sup>2</sup> )
<b>West South Central</b> .....	3,269	4,730	5,411	6,391	---	---	7,426	8,379	8,795	10,131	---	---
Arkansas.....	570	957	987	1,233	36	64	794	1,410	1,231	1,246	50	64
Louisiana.....	750	559	765	755	45	39	1,999	1,593	1,686	1,743	121	90
Oklahoma.....	818	1,711	1,680	2,078	49	87	1,110	1,799	2,677	3,278	67	136
Texas.....	1,131	1,503	1,979	2,325	29	43	3,528	5,577	3,201	3,864	90	71
<b>Mountain</b> .....	1,812	1,681	2,012	2,189	---	---	3,206	2,933	3,456	3,690	---	---
Montana.....	297	243	277	273	79	38	691	331	437	471	184	86
Idaho.....	95	119	125	149	29	28	220	284	382	396	68	73
Wyoming.....	123	125	76	117	84	49	257	335	264	301	176	123
Colorado.....	596	562	806	804	75	75	851	1,015	1,129	1,258	107	116
New Mexico.....	193	164	193	230	59	59	313	239	358	381	96	97
Arizona.....	279	207	257	309	137	67	405	355	444	485	198	104
Utah.....	149	186	155	145	40	28	270	200	210	208	72	40
Nevada.....	80	75	123	112	98	145	199	174	232	190	243	246
<b>Pacific</b> .....	1,739	2,582	3,008	3,207	---	---	4,464	5,253	8,022	8,441	---	---
Washington.....	510	750	827	789	45	51	1,249	1,010	1,552	1,484	109	94
Oregon.....	221	262	332	368	33	41	899	406	572	629	59	70
California.....	1,008	1,570	1,849	2,050	42	46	2,816	3,837	5,898	6,328	118	141

<sup>1</sup> Based upon enumerated population Apr 15, 1910, and estimated population July 1, 1927, and Jan. 1, 1928.

<sup>2</sup> No report received.

<sup>3</sup> Data for the State prison and house of correction for men only. Not included in total.

<sup>4</sup> Data for 1926 and 1927 include the State reformatory for women, established since 1923, data for 1910 and 1923 include the State workhouse and house of correction.

<sup>5</sup> No prison or reformatory in Delaware or the District of Columbia.

<sup>6</sup> Includes data for the Maryland house of correction and the State penitentiary.

Source. Bureau of the Census, Department of Commerce

### 3. VITAL STATISTICS

GENERAL NOTE.—Vital statistics are registered by the States in the first instance, but duplicates of the original certificates of individual births and deaths are received and tabulated by the Census Bureau. Some States have as yet no system of registration. Owing to the gradual expansion of the "registration" areas (shown in Tables 81, 88 and 97), figures for the areas as a whole are not strictly comparable but, in most cases, the rates are affected very slightly.

Rates of births and deaths are affected by the sex and age distribution of the population. Certain tables show "adjusted" death rates in 1920, taking these factors into consideration, but most of the tables show crude rates which are obtained simply by dividing the number of deaths by the total population. The difference for the registration area as a whole is small, but for some States it is considerable. Adjusted rates subsequent to 1920 may be computed by applying to the crude rates, based on estimated population, the ratio of the adjusted rate to the crude rate in 1920, based on enumerated population. This method, as we get farther and farther away from the census of 1920, may become less and less reliable owing to changes in the age and sex distribution of the population. Stillbirths, shown in Table 92, are excluded from data for both births and deaths.

General tables cover the registration area in continental United States. Hawaii and the Virgin Islands are the only territories or possessions having adequate registration of births and deaths. Data for the former are shown separately in certain tables.

#### No. 81.—DEATHS: NUMBER AND RATES IN THE DEATH REGISTRATION AREA, 1880 TO 1927

NOTE—See general note above

Year	Registration area			All deaths		Deaths under 1 year of age		Deaths under 5 years of age	
	Population	Percent of U S total population	Percent of U S total area	Number	Rate per 1,000 population	Number	Percent of all deaths	Number	Percent of all deaths
1880 <sup>1</sup> -----	8,538,366	17.0	0.6	169,453	19.8	48,041	28.3	74,810	44.0
1890 <sup>1</sup> -----	19,659,440	31.2	3.0	386,212	19.6	86,790	22.5	133,778	34.6
1900-----	36,765,618	40.5	7.1	589,939	17.6	111,687	20.7	164,137	30.4
1901-----	31,370,952	40.3	7.2	518,207	16.5	97,477	18.8	141,678	27.3
1902-----	32,029,815	40.4	7.2	508,640	15.9	98,575	19.4	143,515	28.2
1903-----	32,701,083	40.4	7.2	524,415	16.0	96,857	18.5	139,940	26.7
1904-----	33,345,163	40.4	7.2	551,354	16.5	102,880	18.7	145,902	26.5
1905-----	34,052,201	40.4	7.2	545,533	16.0	105,553	19.3	147,384	27.0
1906-----	41,983,419	48.9	20.3	658,105	15.7	133,105	20.2	186,978	28.4
1907-----	43,016,990	49.2	20.3	687,034	16.0	131,110	19.1	183,774	26.7
1908-----	46,789,913	52.5	24.4	691,574	14.8	136,432	19.7	189,865	27.5
1909-----	50,870,618	56.1	25.7	732,538	14.4	140,057	19.1	196,534	26.8
1910-----	53,831,742	58.3	33.6	805,412	15.0	154,373	19.2	217,319	27.0
1911-----	59,183,071	63.2	37.2	839,284	14.2	149,322	17.8	209,482	25.0
1912-----	60,359,974	63.5	37.2	838,251	13.9	147,455	17.6	204,639	24.4
1913-----	63,200,625	65.5	38.6	890,848	14.1	159,435	17.9	225,129	25.3
1914-----	65,813,315	67.2	41.3	898,059	13.6	155,075	17.3	214,120	23.8
1915-----	67,095,681	67.5	41.3	909,155	13.6	148,561	16.3	203,223	22.4
1916-----	71,349,162	70.8	44.0	1,001,921	14.0	164,660	16.4	234,081	23.4
1917-----	74,984,498	73.4	45.4	1,068,932	14.3	171,024	16.0	243,708	22.8
1918-----	81,333,675	78.5	52.0	1,471,367	18.1	193,855	13.2	306,143	20.8
1919-----	85,166,043	81.1	55.5	1,096,436	12.9	161,621	14.7	229,813	21.0
1920-----	87,486,713	82.2	58.0	1,142,558	13.1	174,710	15.3	248,432	21.7
1921-----	88,667,602	82.2	58.0	1,032,009	11.6	160,011	15.5	220,688	21.4
1922-----	93,241,643	85.3	66.1	1,101,863	11.8	158,560	14.4	218,201	19.8
1923-----	96,986,371	87.6	68.0	1,193,017	12.3	166,274	13.9	233,918	19.6
1924-----	99,200,298	88.5	70.3	1,173,990	11.8	161,404	13.7	220,122	18.7
1925-----	103,108,000	89.4	70.9	1,219,019	11.8	161,961	13.3	218,294	17.9
1926-----	105,167,000	89.8	74.7	1,285,927	12.2	163,343	12.7	226,824	17.6
1927-----	108,327,000	91.3	76.5	1,236,949	11.4	147,134	11.9	199,507	16.1

<sup>1</sup>Census year ended May 31

Source Bureau of the Census, Department of Commerce.

## c. 82.—DEATHS: RATE PER 1,000 POPULATION, BY SEX AND BY AGE GROUPS

OTE—It is necessary for accurate comparison of different years to consider only States having registration throughout the period compared. The rates for the registration States of 1900 are based on the population as enumerated January 1, 1920, and the estimated midyear population of 1903, 1913, 1926, and 1927; the rates for the registration States of 1920 are based on the midyear estimates. See also general note p. 77

Sex and age group	Death rates from all causes per 1,000 population										
	Registration States as of 1900					Registration States as of 1920					
	Annual average		1920	1926	1927	1920	1923	1924	1925	1926	1927
	1901-1905	1911-1915									
BOTH SEXES											
All ages:											
Adjusted rate.....	15.6	14.1	13.2	12.0	11.0	12.7	11.9	11.3	11.5	11.8	11.1
Crude rate.....	15.8	14.6	13.9	12.9	11.9	13.9	12.4	11.9	11.9	12.3	11.5
Under 1 year.....	138.2	123.0	106.1	75.2	64.1	96.6	86.3	82.3	75.3	74.3	64.7
1 to 4 years.....	15.8	11.8	10.7	7.1	5.0	9.8	8.1	6.8	6.3	6.9	5.5
Under 5 years.....	41.7	34.6	29.1	20.2	16.4	26.5	22.9	21.0	19.7	20.0	17.0
5 to 9 years.....	4.1	3.1	3.2	2.3	2.3	3.0	2.4	2.2	2.1	2.1	2.1
10 to 14 years.....	2.7	2.1	2.3	1.7	1.7	2.3	1.9	1.8	1.8	1.7	1.7
15 to 19 years.....	4.4	3.5	3.8	2.9	2.8	4.1	3.5	3.5	3.3	3.2	3.0
20 to 24 years.....	6.1	4.9	5.2	3.7	3.5	5.7	4.6	4.6	4.3	4.3	4.0
25 to 34 years.....	7.5	6.1	6.4	4.3	4.1	6.8	5.1	4.9	4.8	4.8	4.6
35 to 44 years.....	9.9	9.0	8.0	7.3	7.0	8.2	7.4	7.2	7.3	7.5	7.2
45 to 54 years.....	14.4	14.3	12.6	13.2	12.4	12.1	12.1	12.0	12.4	13.0	12.5
55 to 64 years.....	27.1	27.5	25.5	28.2	26.8	23.6	24.4	23.7	25.2	26.3	25.4
65 to 74 years.....	55.1	58.0	56.7	64.1	61.1	52.3	56.4	55.0	57.6	60.9	58.9
75 years and over.....	137.8	140.1	141.3	151.3	138.4	133.6	140.9	133.3	141.1	149.7	139.9
MALES											
All ages:											
Adjusted rate.....	16.5	15.3	13.8	12.9	11.9	13.2	12.6	12.2	12.2	12.6	11.9
Crude rate.....	16.6	15.5	14.2	13.5	12.5	13.4	13.0	12.7	12.6	13.0	12.3
Under 1 year.....	152.7	136.7	119.8	84.4	72.9	108.5	96.5	93.0	84.8	83.4	72.8
1 to 4 years.....	16.5	12.4	11.1	7.6	5.4	10.2	8.6	7.3	6.6	7.3	5.8
Under 5 years.....	45.3	37.8	32.0	22.4	18.4	29.1	25.2	23.4	21.8	22.1	18.8
5 to 9 years.....	4.2	3.3	3.4	2.5	2.5	3.1	2.6	2.4	2.3	2.3	2.3
10 to 14 years.....	2.8	2.2	2.4	1.9	1.9	2.4	2.1	2.0	2.0	1.9	1.8
15 to 19 years.....	4.4	3.7	3.9	3.1	3.0	4.2	3.6	3.6	3.4	3.3	3.1
20 to 24 years.....	6.2	5.3	5.0	3.9	3.6	5.4	4.7	4.7	4.3	4.3	4.0
25 to 34 years.....	7.8	6.5	6.2	4.4	4.2	6.5	5.2	5.0	4.9	4.8	4.6
35 to 44 years.....	10.6	10.1	8.3	8.0	7.7	8.3	7.8	7.7	7.8	8.0	7.7
45 to 54 years.....	15.6	15.9	13.1	14.5	13.6	12.5	12.8	12.7	13.2	13.9	13.4
55 to 64 years.....	29.1	30.1	26.7	30.5	29.1	24.6	25.9	25.4	27.0	28.2	27.6
65 to 74 years.....	58.2	61.7	58.6	68.4	65.4	54.2	59.1	58.7	61.5	64.9	63.2
75 years and over.....	142.9	144.6	145.0	155.8	144.3	136.1	144.2	138.8	145.7	154.5	145.8
FEMALES											
All ages:											
Adjusted rate.....	14.6	13.0	12.6	11.1	10.2	12.2	11.2	10.6	10.8	11.1	10.3
Crude rate.....	14.9	13.6	13.5	12.2	11.2	12.6	11.8	11.1	11.2	11.6	10.8
Under 1 year.....	123.3	109.0	92.2	65.8	55.2	84.4	75.9	71.4	65.6	64.9	56.3
1 to 4 years.....	15.2	11.3	10.2	6.6	4.7	9.3	7.7	6.4	5.9	6.5	5.1
Under 5 years.....	38.0	31.2	26.0	18.0	14.4	23.9	20.6	18.6	17.5	17.8	15.1
5 to 9 years.....	4.0	2.9	2.0	2.1	2.0	2.8	2.2	2.0	1.9	1.9	1.9
10 to 14 years.....	2.7	2.0	2.1	1.6	1.5	2.1	1.7	1.6	1.6	1.5	1.5
15 to 19 years.....	4.4	3.2	3.7	2.8	2.6	4.0	3.5	3.4	3.2	3.2	3.0
20 to 24 years.....	5.9	4.5	5.3	3.6	3.4	5.9	4.5	4.5	4.3	4.2	4.0
25 to 34 years.....	7.3	5.6	6.7	4.3	4.1	7.2	5.1	4.8	4.8	4.8	4.6
35 to 44 years.....	9.0	7.9	7.6	6.5	6.1	8.0	6.9	6.6	6.9	7.0	6.7
45 to 54 years.....	13.1	12.6	12.1	11.7	11.2	11.6	11.3	11.1	11.4	11.9	11.5
55 to 64 years.....	25.1	24.9	24.2	25.8	24.3	22.5	22.7	21.8	23.2	24.3	23.0
65 to 74 years.....	52.1	54.5	55.0	60.1	56.9	50.2	53.6	51.0	53.5	56.7	54.4
75 years and over.....	133.3	136.4	138.4	147.6	133.6	131.4	137.9	128.5	137.2	145.4	134.6

Source. Bureau of the Census, Department of Commerce.

**No. 83.—DEATHS: CRUDE RATES PER 1,000 ESTIMATED POPULATION IN THE DEATH REGISTRATION AREA, BY COLOR**

NOTE.—See general note, p 77

Year	Registration area			All registration cities			Rural part of registration area		
	Total	White	Colored	Total	White	Colored	Total	White	Colored
1913.....	14 1	13 7	21 7	15 3	14 7	24 1	12 7	12 4	18 2
1914.....	13 6	13 2	21 7	14 8	14 3	23 9	12 3	12 0	18 6
1915.....	13 6	13 1	22 8	14 6	14 0	23 8	12 3	12 0	19 2
1916.....	14 0	13 6	19 8	15 2	14 7	23 0	12 9	12 5	17 4
1917.....	14 3	13 7	21 4	15 5	14 8	25 6	13 0	12 5	18 2
1918.....	18 1	17 4	26 0	20 0	19 3	30 4	16 3	15 6	23 1
1919.....	12 9	12 4	18 0	13 9	13 4	21 9	11 9	11 4	16 0
1920.....	13 1	12 6	18 0	14 2	13 6	22 7	11 9	11 5	15 3
1921.....	11 6	11 2	16 0	12 4	11 9	19 8	10 9	10 6	13 8
1922.....	11 8	11 4	15 7	12 7	12 2	20 5	11 0	10 7	13 2
1923.....	12 3	11 8	17 1	13 2	12 5	22 5	11 5	11 1	14 2
1924.....	11 8	11 2	17 8	12 8	12 1	23 3	10 9	10 4	11 8
1925.....	11 8	11 2	18 2	13 0	12 2	23 4	10 7	10 2	15 2
1926.....	12 2	11 6	18 8	13 4	12 7	23 9	11 1	10 6	15 6
1927.....	11 4	10 8	17 8	12 5	11 8	22 3	10 4	9 9	14 5

Source Bureau of the Census, Department of Commerce

**No. 84.—DEATHS: NUMBER IN THE DEATH REGISTRATION STATES**

NOTE.—See general note, p 77

Registration States	1925	1926	1927	Registration States	1925	1926	1927
<b>Total</b> .....	<b>1, 191, 809</b>	<b>1, 257, 256</b>	<b>1, 211, 627</b>	Minnesota.....	25, 436	25, 893	24, 888
Alabama.....	29, 140	29, 692	27, 062	Mississippi.....	22, 153	23, 766	23, 203
White.....	14, 964	15, 416	14, 273	White.....	8, 213	8, 191	8, 247
Colored.....	14, 176	14, 276	12, 789	Colored.....	13, 939	14, 575	14, 856
Arizona.....	(1)	5, 572	5, 881	Missouri.....	41, 288	42, 752	40, 753
Arkansas.....	(1)	(1)	18, 311	Montana.....	5, 188	5, 395	5, 342
White.....	(1)	(1)	11, 926	Nebraska.....	12, 493	12, 648	12, 869
Colored.....	(1)	(1)	6, 385	New Hampshire.....	6, 563	6, 703	6, 329
California.....	56, 800	58, 914	61, 540	New Jersey.....	42, 192	44, 876	42, 128
Colorado.....	12, 549	12, 273	13, 082	New York.....	142, 500	151, 345	140, 899
Connecticut.....	17, 680	18, 318	16, 757	North Carolina.....	32, 548	34, 562	32, 917
Delaware.....	3, 115	3, 447	3, 007	White.....	19, 702	20, 967	19, 844
Dist. of Columbia.....	7, 015	7, 388	6, 986	Colored.....	12, 846	13, 605	13, 073
White.....	4, 293	4, 633	4, 306	North Dakota.....	5, 045	5, 313	5, 211
Colored.....	2, 722	2, 805	2, 680	Ohio.....	73, 007	78, 685	73, 515
Florida.....	16, 862	20, 044	18, 151	Oregon.....	9, 629	9, 857	10, 206
White.....	10, 160	12, 173	10, 887	Pennsylvania.....	115, 745	120, 537	111, 252
Colored.....	6, 702	7, 871	7, 264	Rhode Island.....	8, 226	8, 791	7, 897
Idaho.....	3, 402	3, 871	3, 787	South Carolina.....	21, 990	23, 403	21, 740
Illinois.....	81, 592	85, 331	82, 849	White.....	8, 693	9, 219	8, 961
Indiana.....	38, 632	40, 016	37, 677	Colored.....	13, 297	14, 184	12, 779
Iowa.....	24, 294	25, 466	24, 532	Tennessee.....	27, 834	31, 395	29, 029
Kansas.....	18, 581	19, 100	18, 582	White.....	19, 404	22, 163	20, 549
Kentucky.....	28, 387	29, 952	27, 209	Colored.....	8, 430	9, 232	8, 480
White.....	23, 736	23, 145	22, 786	Utah.....	4, 484	5, 136	4, 737
Colored.....	4, 651	4, 807	4, 423	Vermont.....	5, 137	5, 215	4, 882
Louisiana.....	25, 088	24, 230	23, 875	Virginia.....	29, 543	30, 818	28, 772
White.....	12, 802	12, 873	11, 873	White.....	17, 623	18, 866	17, 608
Colored.....	12, 286	11, 357	11, 997	Colored.....	11, 820	11, 952	11, 269
Maine.....	10, 792	11, 355	10, 958	Washington.....	15, 280	15, 670	15, 950
Maryland.....	21, 628	22, 649	21, 102	West Virginia.....	17, 154	18, 143	16, 989
White.....	16, 143	17, 170	15, 827	Wisconsin.....	29, 380	30, 191	29, 567
Colored.....	5, 485	5, 479	5, 275	Wyoming.....	1, 896	1, 902	1, 976
Massachusetts.....	51, 721	52, 638	49, 285	Hawaii.....	4, 108	3, 886	4, 046
Michigan.....	49, 419	54, 084	50, 643				

<sup>1</sup> Not added to the registration area until a later date.

<sup>2</sup> Not included in totals.

Source: Bureau of the Census, Department of Commerce

## No. 85.—DEATHS: RATE PER 1,000 POPULATION, BY STATES

NOTE.—See general note, p 77

Registration States	Death rate per 1,000 estimated population										Ratio of ad-justed to crude rate, 1920
	Crude rate									Ad-justed rate, 1920	
	1919	1920	1921	1922	1923	1924	1925	1926	1927		
Total <sup>1</sup> .....	12.8	13.0	11.6	11.8	12.3	11.8	11.8	12.2	11.4	12.7	-----
Alabama.....	(2)	(2)	(2)	(2)	(2)	(2)	11.7	11.8	10.6	(2)	(2)
White.....	(2)	(2)	(2)	(2)	(2)	(2)	9.4	9.4	8.6	(2)	(2)
Colored.....	(2)	(2)	(2)	(2)	(2)	(2)	15.6	16.0	14.8	(2)	(2)
Arizona.....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	12.5	12.8	(2)	(2)
Arkansas.....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	9.3	(2)	(2)
White.....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	8.4	(2)	(2)
Colored.....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	12.8	(2)	(2)
California.....	13.7	13.6	13.2	14.1	14.3	14.5	13.6	13.7	13.9	12.4	0.9117
Colorado.....	12.9	14.5	12.4	13.5	12.4	12.5	12.1	11.6	12.2	14.4	.9971
Connecticut.....	13.3	13.6	11.4	12.0	12.0	11.3	11.2	11.4	10.2	12.9	.9507
Delaware.....	15.5	14.6	13.1	13.2	14.0	13.0	13.1	14.4	12.4	13.7	.9420
Florida.....	12.4	13.0	11.8	12.2	13.5	12.9	13.3	15.2	13.3	13.4	1.0308
White.....	11.3	11.7	10.5	10.9	11.8	11.2	11.8	13.6	11.7	11.4	.9715
Colored.....	14.3	15.5	14.2	15.0	17.0	16.4	16.6	18.8	16.9	17.6	1.137
Georgia.....	(2)	(2)	(2)	10.4	11.3	11.5	(2)	(2)	(2)	(2)	(2)
White.....	(2)	(2)	(2)	9.2	9.9	9.8	(2)	(2)	(2)	(2)	(2)
Colored.....	(2)	(2)	(2)	12.2	13.3	13.9	(2)	(2)	(2)	(2)	(2)
Idaho.....	(2)	(2)	(2)	8.1	7.1	7.9	6.7	7.4	7.1	(2)	(2)
Illinois.....	12.0	12.6	11.1	11.3	12.0	11.2	11.5	11.8	11.4	12.5	.9892
Indiana.....	12.7	13.4	11.9	11.9	12.9	12.2	12.5	12.8	12.0	12.1	.9024
Iowa.....	(2)	(2)	(2)	(2)	10.3	9.8	10.0	10.5	10.1	(2)	(2)
Kansas.....	10.8	11.4	10.2	10.6	11.0	9.9	10.2	10.5	10.2	10.4	.9142
Kentucky.....	12.8	11.8	10.5	10.8	11.9	10.8	11.3	11.9	10.7	11.7	.9948
White.....	11.3	11.0	9.8	10.0	11.1	9.9	10.4	10.9	9.8	10.9	.9280
Colored.....	21.2	19.4	17.9	18.4	19.5	20.1	20.8	22.5	21.0	19.5	1.0037
Louisiana.....	12.9	11.9	11.0	11.3	12.1	13.1	13.2	12.6	12.3	13.3	1.1152
White.....	10.6	9.8	9.2	9.4	10.0	10.5	10.2	10.0	9.5	10.9	1.1167
Colored.....	16.4	15.3	13.9	14.4	15.5	17.6	18.4	17.3	17.4	17.1	1.1157
Maine.....	14.6	15.4	14.0	14.7	15.0	13.8	13.7	14.4	13.8	12.4	.8048
Maryland.....	15.3	14.7	13.6	13.6	14.7	13.8	13.9	14.3	13.2	14.4	.9811
White.....	13.8	13.3	12.8	12.4	13.8	12.5	12.4	13.0	11.8	12.8	.9576
Colored.....	22.3	21.2	19.6	19.4	21.4	20.2	21.5	21.5	20.6	22.7	1.0693
Massachusetts.....	13.6	13.8	12.2	12.8	13.0	12.0	12.5	12.5	11.6	12.9	.9361
Michigan.....	12.6	13.9	11.6	11.3	12.4	11.6	11.5	12.3	11.3	13.2	.9525
Minnesota.....	10.5	10.7	9.4	9.5	10.1	9.7	9.7	9.7	9.2	10.5	.9796
Mississippi.....	12.7	12.3	11.1	10.8	11.4	11.8	12.4	13.3	13.0	13.4	1.0868
White.....	9.6	9.2	8.6	8.7	9.1	9.2	9.6	10.8	10.4	9.7	1.0536
Colored.....	15.4	15.1	13.5	12.8	15.5	14.9	14.9	15.6	15.3	16.3	1.1133
Missouri.....	11.8	12.5	10.8	11.2	12.2	11.7	11.9	12.2	11.6	11.9	.9539
Montana.....	10.7	9.5	8.2	8.6	8.0	7.9	7.7	7.8	7.5	10.2	1.0706
Nebraska.....	(2)	10.0	9.2	9.4	9.5	9.2	9.1	9.1	8.9	9.7	.9726
New Hampshire.....	14.7	15.2	13.7	14.6	15.1	14.2	14.5	14.8	13.9	12.2	.7982
New Jersey.....	13.1	13.0	11.7	12.2	12.3	11.9	11.7	12.2	11.2	13.1	1.0102
New York.....	13.9	13.8	12.3	13.0	13.0	12.7	12.8	13.4	12.3	13.6	.9803
North Carolina.....	12.2	12.7	11.3	11.6	12.0	12.2	11.6	12.1	11.4	13.4	1.0579
White.....	10.6	11.2	9.9	10.3	10.5	10.4	9.9	10.4	9.7	11.6	1.0370
Colored.....	15.9	16.0	14.4	14.8	15.5	16.4	15.5	16.3	15.5	17.7	1.1039
North Dakota.....	(2)	(2)	(2)	(2)	(2)	7.6	7.9	8.3	8.1	(2)	(2)
Ohio.....	12.7	12.8	11.3	11.3	12.3	11.2	11.4	11.9	11.0	11.9	.9304
Oregon.....	11.4	11.7	10.4	11.5	10.9	11.4	11.2	11.2	11.5	10.9	.9277
Pennsylvania.....	13.4	13.8	12.4	12.3	13.3	12.3	12.2	12.5	11.4	13.6	.9867
Rhode Island.....	14.2	14.3	12.6	13.1	13.8	12.5	12.1	12.7	11.2	13.8	.9626
South Carolina.....	13.8	14.0	11.9	12.0	11.8	13.0	12.2	12.8	11.8	15.6	1.1107
White.....	10.6	11.4	9.8	9.7	9.5	10.4	9.6	9.8	9.4	12.3	1.0792
Colored.....	16.7	16.6	14.0	14.2	14.1	15.6	14.9	15.9	14.3	13.9	1.1418
Tennessee.....	12.2	12.1	10.7	10.3	11.9	11.6	11.4	12.7	11.7	12.5	1.0368
White.....	10.8	10.7	9.4	9.5	10.4	9.9	9.7	10.9	10.0	10.9	1.0187
Colored.....	18.4	18.1	16.0	16.4	18.7	19.4	19.0	21.3	19.6	19.2	1.0596
Utah.....	11.0	11.5	10.4	10.4	9.5	10.4	8.9	10.0	9.1	12.0	1.0470
Vermont.....	14.4	15.7	14.2	14.7	15.2	13.8	14.6	14.8	13.9	12.3	.7834
Virginia.....	13.7	13.1	12.2	12.1	12.8	12.0	11.8	12.2	11.3	13.6	1.0332
White.....	11.5	11.3	10.4	10.3	11.0	10.3	9.9	10.4	9.5	11.4	1.0092
Colored.....	18.3	17.6	16.3	16.4	17.2	16.4	16.6	16.9	15.9	18.9	1.0785
Washington.....	10.7	11.1	9.5	10.1	9.7	10.0	10.1	10.2	10.2	11.0	.9925
White.....	(2)	(2)	(2)	(2)	(2)	(2)	10.5	10.9	10.0	(2)	(2)
Colored.....	(2)	(2)	(2)	(2)	(2)	(2)	10.5	10.9	10.0	(2)	(2)
Wisconsin.....	10.7	11.2	10.3	10.1	10.7	10.2	10.3	10.5	10.1	10.5	.9893
Wyoming.....	(2)	(2)	(2)	9.3	10.3	9.5	8.3	8.1	8.2	(2)	(2)
Hawaii <sup>4</sup> .....	15.3	17.7	14.8	16.0	16.6	14.1	14.1	13.0	13.2	(2)	(2)

<sup>1</sup> Includes District of Columbia (see rates under Washington, Table 86); does not include Hawaii<sup>2</sup> Not added to registration area until a later date<sup>3</sup> State registration law declared unconstitutional<sup>4</sup> Not included in the total<sup>5</sup> Not computed

Source Bureau of the Census, Department of Commerce



**No. 86.—DEATHS. RATE PER 1,000 ESTIMATED POPULATION, BY REGISTRATION CITIES HAVING 100,000 OR MORE INHABITANTS IN 1920**

NOTE.—For discussion of crude and adjusted rates see general note, p. 77

City	Crude rate			Adjusted rate, 1920	Ratio of ad- justed to crude rate, 1920	City	Crude rate			Adjusted rate, 1920	Ratio of ad- justed to crude rate, 1920
	1920	1926	1927				1920	1926	1927		
Akron.....	11.3	(1)	(1)	13.8	1.2169	Milwaukee.....	11.7	11.1	10.7	12.4	1.0583
Albany.....	15.7	16.8	15.9	14.3	1.9118	Minneapolis.....	12.3	11.5	10.5	12.4	1.0111
Atlanta.....	17.2	16.9	15.4	19.3	1.1265	Nashville.....	18.1	19.7	17.4	18.8	1.0373
White.....	14.5	11.1	(1)	19.4	1.1915	White.....	15.5	18.0	(1)	16.2	1.0414
Colored.....	23.0	27.5	(1)	23.7	1.1196	Colored.....	24.0	29.0	(1)	24.8	1.0804
Baltimore.....	15.4	15.1	14.1	15.6	1.0156	New Bedford.....	14.2	12.5	11.0	14.9	1.0449
White.....	13.9	13.4	(1)	13.9	1.9947	New Haven.....	14.5	12.2	11.2	14.5	1.0018
Colored.....	23.5	25.1	(1)	26.6	1.1304	New Orleans.....	17.6	18.9	18.7	13.7	1.0622
Birmingham.....	16.5	17.7	15.8	19.2	1.1663	White.....	14.5	15.0	(1)	15.2	1.0431
White.....	12.4	13.5	(1)	14.7	1.1807	Colored.....	26.4	30.0	(1)	29.4	1.1167
Colored.....	22.8	24.0	(1)	24.4	1.1601	New York.....	13.0	12.8	11.8	14.4	1.1082
Boston.....	15.4	14.9	14.0	15.5	1.0052	Bronx Borough.....	10.6	10.3	9.8	12.4	1.1750
Bridgeport.....	12.8	(1)	(1)	13.9	1.0784	Brooklyn.....	12.6	12.0	10.9	13.8	1.0966
Buffalo.....	14.6	14.3	13.1	15.3	1.0440	Manhattan.....	14.3	16.0	14.7	15.9	1.1137
Cambridge.....	14.9	12.1	11.2	14.5	1.0736	Queens Borough.....	11.5	10.3	9.9	12.7	1.1019
Camden.....	14.7	13.5	12.4	15.4	1.0443	Richmond.....	15.1	14.0	12.2	15.2	1.0057
Chicago.....	12.8	11.7	11.5	13.9	1.0897	Newark, N. J.....	12.9	11.9	10.9	14.0	1.0912
Cincinnati.....	15.1	17.3	16.7	14.4	1.9530	Norfolk.....	15.2	10.7	9.8	17.3	1.1392
Cleveland.....	12.4	11.1	9.7	13.8	1.1168	White.....	11.8	7.6	(1)	13.4	1.1322
Columbus.....	14.8	13.9	13.4	14.6	1.0898	Colored.....	20.7	16.2	(1)	23.6	1.1409
Dallas.....	13.4	13.5	11.5	15.4	1.1466	Oakland.....	11.8	10.8	11.0	11.5	1.9800
White.....	12.1	11.9	(1)	14.0	1.1527	Omaha.....	14.3	13.0	12.2	15.2	1.0622
Colored.....	20.8	23.4	(1)	23.7	1.1415	Paterson.....	12.8	12.8	12.2	13.5	1.0318
Dayton.....	12.2	12.2	12.3	12.2	1.0036	Philadelphia.....	14.4	13.8	12.2	14.6	1.0153
Denver.....	17.3	13.9	14.4	17.0	1.9800	Pittsburgh.....	16.4	14.1	13.7	17.5	1.0658
Des Moines.....	(2)	11.8	10.9	(2)	(2)	Portland, Oreg.....	12.1	(1)	(1)	11.8	1.9737
Detroit.....	13.4	12.6	10.8	15.2	1.1335	Providence.....	15.5	12.9	11.3	15.2	1.9837
Fall River.....	14.7	13.0	10.9	15.1	1.0303	Reading.....	14.5	12.7	10.6	14.0	1.9664
Fort Worth.....	(2)	9.7	9.3	(2)	(2)	Richmond.....	16.5	16.0	14.2	17.7	1.0731
White.....	(2)	9.0	(1)	(2)	(2)	White.....	13.3	12.8	(1)	13.8	1.0372
Colored.....	(2)	15.1	(1)	(2)	(2)	Colored.....	23.3	23.9	(1)	26.2	1.1271
Grand Rapids.....	13.2	11.3	9.8	12.6	1.0546	Rochester.....	12.6	12.8	11.7	12.4	1.9862
Hartford.....	16.4	13.0	12.3	16.9	1.0325	St. Louis.....	14.1	13.9	12.9	14.6	1.0398
Houston.....	13.9	(1)	(1)	15.7	1.1337	St. Paul.....	12.5	12.3	11.8	12.8	1.0193
White.....	12.5	(1)	(1)	13.9	1.1275	Salt Lake City.....	14.3	12.8	12.3	14.6	1.0236
Colored.....	18.6	(1)	(1)	21.6	1.1573	San Antonio.....	16.2	14.7	14.4	17.8	1.1015
Indianapolis.....	14.0	14.0	13.1	14.8	1.0154	San Francisco.....	14.2	13.5	13.6	14.1	1.9920
White.....	13.8	13.4	(1)	13.7	1.9971	Scranton.....	14.9	13.2	13.2	16.2	1.0875
Colored.....	20.9	18.7	(1)	23.9	1.1417	Seattle.....	10.7	(1)	9.5	11.1	1.0419
Jersey City.....	14.1	11.9	11.0	15.4	1.0912	Spokane.....	14.2	13.9	13.6	14.1	1.9905
Kansas City.....	14.5	13.6	13.2	15.1	1.0459	Springfield, Mass.....	13.0	12.6	11.4	13.1	1.0064
White.....	15.5	12.6	(1)	(1)	(1)	Syracuse.....	15.2	13.6	12.3	14.9	1.9783
Colored.....	20.6	18.5	(1)	(1)	(1)	Toledo.....	13.8	12.6	11.9	14.1	1.0210
Kansas City, Mo.....	16.1	13.7	13.1	16.8	1.0476	Trenton.....	15.7	14.1	13.2	16.4	1.0450
Los Angeles.....	14.1	(1)	(1)	13.1	1.9336	Washington, D. C.....	14.6	14.0	12.9	15.0	1.0301
Louisville.....	15.2	15.2	12.8	15.2	1.9961	White.....	12.6	11.8	10.4	12.4	1.9840
White.....	13.8	13.5	(1)	13.5	1.9798	Colored.....	20.6	22.6	21.2	23.1	1.1213
Colored.....	23.2	24.6	(1)	23.6	1.0636	Wilmington, Del.....	14.1	13.0	11.6	14.3	1.0181
Lowell.....	15.7	14.0	12.6	15.8	1.0084	Worcester.....	14.7	14.0	12.9	14.4	1.9789
Memphis.....	13.9	20.0	19.3	21.6	1.0849	Yonkers.....	11.4	10.4	9.4	12.5	1.1000
White.....	15.6	15.3	(1)	16.7	1.0676	Youngstown.....	12.9	10.7	10.0	14.4	1.1168
Colored.....	27.0	28.4	(1)	30.6	1.1302						

<sup>1</sup> Estimate of population unsatisfactory.

<sup>2</sup> Not added to registration area until a later date

Source: Bureau of the Census, Department of Commerce.

## No. 87.—DEATHS: NUMBER AND RATE PER 100,000 POPULATION, IN THE DEATH REGISTRATION AREA, BY IMPORTANT CAUSES

NOTE.—See general note, p. 77

Detailed Int. List No.	Causes of death	Number of deaths, registration area, 1927	Registration area—rate							Registration States as of 1900—rate						
			1900	1910	1920	1924	1925	1926	1927	1900	1910	1920	1924	1925	1926	1927
	All causes.....	1,238,949	1,755.0	1,496.2	1,306.0	1,188.5	1,182.3	1,232.7	1,141.9	1,719.5	1,562.4	1,379.0	1,232.5	1,239.7	1,237.5	1,187.4
1	Typhoid and paratyphoid fever.....	5,905	35.9	23.5	7.8	6.7	8.0	6.5	5.5	31.3	18.0	5.0	3.5	3.8	2.8	2.0
7	Measles.....	4,433	12.5	12.3	8.8	8.6	2.3	8.2	4.1	13.4	12.6	10.4	5.9	3.4	11.2	1.9
8	Scarlet fever.....	2,440	10.2	11.6	4.6	3.1	2.7	2.5	2.3	9.6	12.2	5.2	3.3	2.7	2.8	2.7
9	Whooping cough.....	7,445	12.1	11.4	12.5	8.3	6.7	8.9	6.9	12.2	10.7	11.9	6.6	5.9	7.8	4.8
10	Diphtheria.....	8,426	43.3	21.4	15.3	9.4	7.8	7.5	7.8	40.4	22.5	17.4	10.3	8.2	7.7	8.5
11, 101 31, 37a	Influenza and pneumonia.....	75,127	181.5	115.1	153.7	76.8	84.5	93.3	69.4	179.4	121.8	144.6	71.5	79.3	96.4	67.1
	Tuberculosis of the respiratory system and acute disseminated tuberculosis.....	78,530	181.8	139.7	100.8	80.2	77.1	77.8	72.5	174.5	142.0	97.2	75.8	72.8	73.3	67.6
32-36, 37b	Other forms of tuberculosis.....	9,687	20.1	20.6	13.4	10.2	9.6	9.3	8.3	20.7	22.7	14.7	10.9	9.9	9.9	8.7
43-49	Cancer and other malignant tumors.....	103,578	63.0	76.2	83.4	91.9	92.6	94.9	95.6	64.0	83.0	98.9	109.8	111.5	113.5	116.1
57	Diabetes mellitus.....	18,937	9.7	14.9	16.1	16.6	16.9	18.0	17.5	11.0	17.6	20.4	20.6	21.2	22.2	22.3
74, 83, 92	Cerebral hemorrhage and softening, em- bolism and thrombosis (not cerebral)	94,621	75.5	79.4	86.4	94.4	86.5	89.0	87.3	80.7	92.3	102.2	107.8	98.3	100.8	97.4
87-90	Diseases of the heart.....	211,576	132.1	158.3	159.3	178.1	185.5	199.1	195.7	137.4	180.9	198.0	221.4	234.2	251.4	241.6
99, 100	Bronchitis and bronchopneumonia.....	42,425	67.6	70.5	67.9	48.2	45.1	50.5	39.2	68.1	79.2	82.1	53.6	61.7	61.2	44.4
113, 114	Diarrhea and enteritis <sup>1</sup> .....	29,899	133.2	117.4	64.4	34.8	39.3	33.6	27.6	139.9	119.4	55.7	28.0	31.4	25.1	20.2
117	Appendicitis and typhilitis.....	16,205	9.7	11.4	13.4	14.9	15.1	15.0	15.0	8.8	11.1	13.2	15.1	15.2	14.9	15.2
118	Hernia, intestinal obstruction <sup>2</sup> .....	11,309	12.2	12.4	10.4	10.6	10.8	11.2	10.4	11.9	12.6	11.1	11.0	10.9	11.5	10.7
122	Cirrhosis of the liver.....	8,088	12.9	13.9	7.1	7.4	7.5	7.2	7.5	12.5	14.4	7.7	8.1	8.2	8.1	8.1
128, 129	Acute and chronic nephritis.....	100,163	89.0	99.1	89.4	89.6	96.3	92.5	88.7	107.3	97.6	93.1	101.4	103.6	95.8	86.8
146	Puerperal septicaemia.....	5,715	5.7	7.2	6.6	6.8	5.5	5.2	5.3	5.8	6.7	6.1	5.3	4.9	4.7	4.9
149-145 147-150	Other puerperal causes.....	9,145	7.6	8.5	12.6	9.7	9.3	9.1	8.4	7.7	8.4	11.5	8.5	8.0	7.6	7.8
159-163	Congenital malformations and diseases of early infancy.....	73,365	91.8	88.1	84.9	78.3	73.9	71.5	67.7	88.2	94.6	91.0	81.3	75.9	73.2	69.5
165-174	Snake.....	14,356	11.5	16.0	10.2	12.2	12.1	12.8	13.3	10.2	15.4	30.9	13.0	13.1	13.4	14.4
197-200	Homicide.....	4,670	2.1	5.9	7.1	8.5	8.6	8.8	8.7	1.2	3.9	4.2	5.1	6.0	6.1	5.6
Part 188a	Automobile and railroad-train collision.....	1,076	(9)	(9)	(9)	(9)	1.2	1.5	1.5	(9)	(9)	(9)	(9)	(9)	1.1	1.4
Part 188b	Automobile and street-car collision.....	476	(9)	(9)	(9)	(9)	0.5	0.4	0.4	(9)	(9)	(9)	(9)	0.6	0.5	0.5
188c	Automobile accidents <sup>3</sup> .....	21,160	(9)	1.8	10.4	15.7	17.0	17.9	19.5	(9)	2.0	12.1	18.2	19.2	19.5	21.5
	Other external causes.....	61,688	79.0	82.6	61.0	60.7	59.6	58.8	57.0	72.3	75.8	58.6	59.0	58.6	56.9	54.4

<sup>1</sup> Includes ulcer of the duodenum from 1900 to 1920.<sup>2</sup> Includes adhesions of intestines from 1900 to 1920.<sup>3</sup> Excludes collisions with railroad trains and street cars.<sup>4</sup> Not separately tabulated.

Source: Bureau of the Census, Department of Commerce.

# No. 88.—BIRTHS, DEATHS, AND DEATHS UNDER 1 YEAR OF AGE IN THE BIRTH REGISTRATION AREA: BY SEX

NOTE—See general note, p. 77

Year	Entire area								
	Population of registration area <sup>1</sup>	Per cent of U. S. total population	Per cent of U. S. total area	Births			Deaths		
				Total	Males	Females	Total	Males	Females
1915	30,936,179	31 1	9 8	776,304	398,615	377,689	436,593	234,871	201,722
1916	32,788,670	32 5	10 2	818,983	420,881	398,102	486,682	264,498	222,184
1917	54,771,416	53 6	26 7	1,363,792	696,101	667,691	776,222	423,359	352,863
1918	55,515,241	53 6	26 7	1,363,649	701,164	662,485	996,627	534,720	461,907
1919	61,483,423	58 6	36 2	1,373,438	705,593	667,845	798,104	422,252	375,852
1920	63,659,441	59 8	38 7	1,508,874	775,322	733,552	836,134	438,201	397,933
1921	70,425,705	65 3	40 7	1,714,261	881,591	832,670	825,511	434,019	391,492
1922	78,885,852	72 2	50 7	1,774,911	911,831	863,080	938,545	497,907	440,578
1923	79,952,425	72 2	50 7	1,792,646	921,020	871,626	992,237	528,429	463,808
1924	85,424,653	76 2	56 8	1,930,614	992,431	938,183	1,006,994	542,637	464,357
1925	87,636,000	76 0	56 6	1,878,880	966,973	911,907	1,030,518	555,267	475,251
1926	89,988,000	76 8	63 2	1,856,068	953,638	902,430	1,093,511	589,653	503,858
1927	103,591,000	87 3	72 0	2,137,836	1,099,287	1,038,549	1,176,805	638,080	538,725

Year	Entire area—Continued						Area <sup>2</sup> as of 1917	
	Excess of births over deaths	Rates per 1,000 of total population			Number of males per 1,000 females		Rates per 1,000 of total population	
		Births	Deaths	Excess of births	Among births	Among deaths	Births	Deaths
1915	339,711	25 1	14 1	11 0	1,055	1,164	-----	-----
1916	332,301	25 0	14 8	10 2	1,057	1,190	-----	-----
1917	577,570	24 7	14 2	10 5	1,053	1,200	24 7	14 2
1918	567,022	24 6	13 3	6 3	1,058	1,158	24 5	17 9
1919	575,334	22 3	13 0	9 3	1,057	1,123	22 6	12 9
1920	672,740	23 7	13 1	10 6	1,057	1,101	23 9	13 2
1921	888,750	24 3	11 7	12 6	1,059	1,109	24 5	11 7
1922	836,366	22 5	11 9	10 6	1,056	1,130	22 8	11 9
1923	800,409	22 4	12 4	10 0	1,057	1,139	22 8	12 5
1924	923,620	22 6	11 8	10 8	1,058	1,169	23 0	11 8
1925	848,362	21 4	11 8	9 6	1,060	1,168	21 7	11 9
1926	762,557	20 6	12 2	8 4	1,057	1,170	20 8	12 3
1927	961,031	20 6	11 4	9 2	1,058	1,184	20 6	11 4

Year	Deaths under 1 year of age in entire birth registration area						
	Number			Deaths per 1,000 births			Number of male deaths per 1,000 female deaths
	Total	Males	Females	Among total	Among males	Among females	
1915	77,572	43,818	33,754	100	110	89	1,298
1916	82,734	46,790	35,944	101	111	90	1,302
1917	126,950	72,192	54,758	94	104	83	1,318
1918	137,647	77,736	59,911	101	111	90	1,298
1919	119,000	67,580	51,420	87	96	77	1,314
1920	129,631	73,737	55,794	86	95	76	1,322
1921	129,588	73,582	56,006	76	84	67	1,314
1922	135,228	77,105	58,123	76	85	67	1,327
1923	138,259	78,309	59,950	77	85	69	1,306
1924	136,730	78,085	58,645	71	79	63	1,331
1925	134,652	76,902	57,750	72	80	63	1,332
1926	136,118	77,366	58,752	73	81	65	1,317
1927	138,017	78,652	59,365	65	72	57	1,325

<sup>1</sup> Midyear estimates<sup>2</sup> Exclusive of Rhode Island.

Source. Bureau of the Census, Department of Commerce.

## No. 89.—BIRTHS AND EXCESS OF BIRTHS OVER DEATHS: BY STATES

NOTE—See general note, p 77 For number of deaths in each State see Table 84; for number in entire birth registration area see Table 88

Area	Number of births					Excess of births over deaths <sup>1</sup>			
	1920	1924	1925	1926	1927	1924	1925	1926	1927
<b>Total birth registration area</b> .....	1,508,874	1,930,614	1,878,880	1,856,088	2,137,836	923,620	848,362	762,557	961,031
White.....	1,395,623	1,762,872	1,731,669	1,707,034	1,925,585	866,531	803,481	722,125	896,927
Colored.....	113,351	167,742	147,211	149,034	212,251	57,089	44,881	40,432	64,104
<b>Cities in birth registration area</b> .....	763,209	979,277	964,302	953,985	1,030,194	442,278	408,352	364,143	418,863
White.....	725,186	917,231	902,580	891,646	950,503	430,322	397,764	356,396	408,508
Colored.....	38,073	62,046	61,722	62,339	79,691	11,956	10,588	7,747	10,355
<b>Rural part of birth registration area</b> .....	745,665	951,337	914,578	902,083	1,107,642	481,342	440,010	398,414	542,168
White.....	670,387	845,641	829,089	815,388	975,082	436,209	405,717	365,729	488,419
Colored.....	75,278	105,696	85,489	86,695	132,560	45,133	34,293	32,685	53,749
<b>Alabama</b> .....	(2)	(2)	(2)	(2)	67,431	(2)	(2)	(2)	40,369
White.....	(2)	(2)	(2)	(2)	45,868	(2)	(2)	(2)	29,585
Colored.....	(2)	(2)	(2)	(2)	23,563	(2)	(2)	(2)	10,774
<b>Arizona</b> .....	(2)	(2)	(2)	8,394	8,538	(2)	(2)	2,822	2,657
<b>Arkansas</b> .....	(2)	(2)	(2)	(2)	40,340	(2)	(2)	(2)	22,029
White.....	(2)	(2)	(2)	(2)	31,464	(2)	(2)	(2)	18,538
Colored.....	(2)	(2)	(2)	(2)	8,876	(2)	(2)	(2)	2,491
<b>California</b> .....	67,199	87,003	85,204	82,986	84,367	30,171	28,404	24,072	22,827
<b>Connecticut</b> .....	34,096	31,715	29,736	29,167	28,931	14,726	12,056	10,849	12,174
<b>Delaware</b> .....	(2)	4,420	4,674	4,199	4,263	1,405	1,559	752	1,256
<b>District of Columbia</b> .....	8,823	9,281	9,107	8,919	9,043	2,728	2,092	1,531	2,057
White.....	6,319	6,433	6,245	6,080	6,210	2,891	1,952	1,477	1,904
Colored.....	2,504	2,848	2,862	2,839	2,833	437	140	54	1,153
<b>Florida</b> .....	(2)	26,776	29,403	34,786	34,118	10,915	12,541	14,742	15,967
White.....	(2)	18,106	20,160	24,885	23,843	8,809	10,000	12,712	12,956
Colored.....	(2)	8,670	9,243	9,901	10,275	2,106	2,541	2,030	3,011
<b>Idaho</b> .....	(2)	(2)	(2)	9,317	9,172	(2)	(2)	5,446	5,385
<b>Illinois</b> .....	(2)	137,118	135,437	133,939	133,662	59,985	53,844	48,608	50,813
<b>Indiana</b> .....	64,809	67,842	64,342	62,788	62,298	30,680	25,710	22,772	24,621
<b>Iowa</b> .....	(2)	49,188	47,760	45,714	44,688	25,414	23,466	20,248	20,156
<b>Kansas</b> .....	39,632	37,929	36,716	35,187	34,730	20,031	18,135	16,037	16,143
<b>Kentucky</b> .....	62,888	66,646	63,507	60,591	62,323	39,840	35,120	30,639	35,114
White.....	58,747	62,234	59,088	56,449	58,271	39,979	35,352	31,304	35,488
Colored.....	4,141	4,412	4,419	4,142	4,052	1-159	1-232	1-665	1-371
<b>Louisiana</b> .....	(2)	(2)	(2)	(2)	46,208	(2)	(2)	(2)	22,333
White.....	(2)	(2)	(2)	(2)	38,796	(2)	(2)	(2)	16,918
Colored.....	(2)	(2)	(2)	(2)	17,412	(2)	(2)	(2)	5,415
<b>Maine</b> .....	17,328	18,477	17,453	16,433	16,347	7,723	6,661	5,078	5,389
<b>Maryland</b> .....	36,212	34,634	33,864	32,867	32,495	13,660	12,236	10,218	11,393
White.....	29,452	27,738	27,121	26,151	25,954	11,825	10,981	8,981	10,127
Colored.....	6,760	6,896	6,740	6,716	6,541	1,837	1,255	1,237	1,266
<b>Massachusetts</b> .....	91,692	91,487	86,037	83,483	82,271	42,129	34,316	30,845	32,986
<b>Michigan</b> .....	92,740	98,025	99,220	98,781	100,178	50,701	49,801	44,697	49,535
<b>Minnesota</b> .....	55,909	55,713	53,776	52,451	50,908	31,134	28,340	26,648	26,220
<b>Mississippi</b> .....	(2)	43,631	45,155	50,840	49,272	22,483	23,002	27,074	26,069
White.....	(2)	21,963	22,083	24,860	24,235	14,098	13,865	15,669	15,388
Colored.....	(2)	21,668	23,072	25,980	25,037	8,385	9,137	11,405	10,681
<b>Missouri</b> .....	(2)	(2)	(2)	(2)	66,432	(2)	(2)	(2)	25,679
<b>Montana</b> .....	(2)	10,212	10,234	9,845	9,799	5,242	5,046	4,450	4,457
<b>Nebraska</b> .....	30,911	30,066	29,233	28,284	27,865	17,678	16,740	15,636	15,496
<b>New Hampshire</b> .....	9,946	10,111	9,407	8,721	8,798	3,754	2,844	2,018	2,469
<b>New Jersey</b> .....	(2)	76,707	74,181	72,402	72,814	35,867	31,989	27,526	30,686
<b>New York</b> .....	235,243	233,206	229,717	222,914	227,603	93,001	87,217	71,569	86,704
<b>North Carolina</b> .....	81,407	87,540	83,716	82,202	83,330	54,302	51,108	47,640	50,413
White.....	57,054	60,230	57,631	56,584	57,635	40,811	37,979	35,627	37,791
Colored.....	24,353	27,310	26,085	25,618	25,695	13,491	13,129	12,013	12,622
<b>North Dakota</b> .....	(2)	14,231	14,471	14,903	14,707	9,379	9,426	9,590	9,496
<b>Ohio</b> .....	123,729	131,841	126,878	123,889	123,611	61,891	53,271	45,194	50,096
<b>Oregon</b> .....	14,942	15,705	15,486	14,754	14,623	6,200	5,857	4,897	4,417
<b>Pennsylvania</b> .....	220,462	223,103	215,120	207,696	210,001	109,782	99,375	87,159	98,749
<b>Rhode Island</b> .....	(2)	14,987	14,400	13,592	13,726	6,650	6,174	4,801	5,829
<b>South Carolina</b> .....	47,777	47,403	(2)	(2)	(2)	24,508	(2)	(2)	(2)
White.....	23,813	24,104	(2)	(2)	(2)	14,968	(2)	(2)	(2)
Colored.....	23,964	23,299	(2)	(2)	(2)	9,540	(2)	(2)	(2)

<sup>1</sup> A minus sign indicates an excess of deaths over births.<sup>2</sup> Not added to the birth registration area until a later date.<sup>3</sup> Rhode Island was not in the birth registration area in 1920, South Carolina in 1925 to 1927.

## No. 89.—BIRTHS AND EXCESS OF BIRTHS OVER DEATHS: BY STATES—CON.

Area	Number of births					Excess of births over deaths			
	1920	1921	1922	1923	1924	1924	1925	1926	1927
Tennessee.....	(2)	(2)	(2)	(2)	54,652	(2)	(2)	(2)	25,623
White.....	(3)	(3)	(3)	(2)	45,821	(3)	(3)	(2)	25,772
Colored.....	(4)	(3)	(3)	(4)	8,831	(4)	(3)	(2)	571
Utah.....	14,157	13,969	13,735	13,156	12,871	8,921	9,251	8,020	8,134
Vermont.....	7,409	7,407	7,509	7,143	7,022	2,547	2,372	1,928	2,140
Virginia.....	65,794	64,286	61,193	57,796	58,185	35,111	31,850	26,978	29,413
White.....	45,229	44,719	42,107	40,318	39,886	27,003	24,884	21,453	23,585
Colored.....	40,565	39,573	38,786	37,478	37,299	8,108	6,966	5,526	6,090
Washington.....	27,072	25,378	24,741	23,789	23,315	10,798	9,461	8,319	7,365
West Virginia.....	(2)	(2)	45,311	43,036	44,857	(4)	28,157	25,793	27,868
Wisconsin.....	58,697	59,351	57,324	55,666	57,570	31,101	27,941	25,475	28,003
Wyoming.....	(2)	5,226	4,833	4,388	4,472	3,163	2,937	2,486	2,496

<sup>1</sup> Not added to the birth registration area until a later date

Source Bureau of the Census, Department of Commerce.

## No. 90.—BIRTHS, DEATHS, AND EXCESS OF BIRTHS OVER DEATHS: RATES PER 1,000 POPULATION IN THE BIRTH REGISTRATION AREA

NOTE—See general note, p. 77

	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927
Total birth registration area:										
Births.....	24.6	22.3	23.7	24.3	22.5	22.4	22.6	21.4	20.6	20.6
Deaths.....	18.3	13.0	13.1	11.7	11.9	12.4	11.8	11.8	12.2	11.4
Excess.....	6.3	9.3	10.6	12.6	10.6	10.0	10.8	9.6	8.4	9.2
White.....										
Births.....	24.6	22.1	23.5	24.0	22.2	22.1	22.2	21.1	20.3	20.2
Deaths.....	17.8	12.6	12.8	11.4	11.6	12.0	11.3	11.3	11.7	10.8
Excess.....	6.8	9.5	10.7	12.6	10.6	10.1	10.9	9.8	8.6	9.4
Colored.....										
Births.....	24.5	25.2	27.0	27.9	26.0	26.3	27.4	26.7	26.2	25.0
Deaths.....	26.8	18.5	18.4	15.9	16.3	17.7	18.1	18.6	19.1	17.5
Excess.....	1.2	6.7	8.6	12.0	9.7	8.6	9.3	8.1	7.1	7.5
Cities.....										
Births.....	25.1	22.7	23.8	24.0	22.2	22.3	22.8	21.9	21.2	20.9
Deaths.....	19.9	13.8	14.0	12.2	12.4	12.9	12.5	12.6	13.1	12.4
Excess.....	5.2	8.9	9.8	11.8	9.8	9.4	10.3	9.3	8.1	8.5
Rural.....										
Births.....	24.0	22.0	23.6	24.7	22.8	22.5	22.4	20.9	20.1	20.4
Deaths.....	16.7	12.2	12.2	11.2	11.3	11.9	11.1	10.9	11.2	10.4
Excess.....	7.3	9.8	11.4	13.5	11.5	10.6	11.3	10.0	8.9	10.0

<sup>1</sup> Excess of deaths over births

Source Bureau of the Census, Department of Commerce

## No. 91.—BIRTHS AND EXCESS OF BIRTHS OVER DEATHS: RATES PER 1,000 POPULATION, BY STATES

NOTE—See general note, p. 77

Area	Births per 1,000 population								Excess of births over deaths per 1,000 population				
	1920	1921	1922	1923	1924	1925	1926	1927	1923	1924	1925	1926	1927
Total birth registration area:													
Births.....	23.7	24.3	22.5	22.4	22.6	21.4	20.6	20.6	10.0	10.8	9.6	8.4	9.2
Deaths.....	23.5	24.0	22.2	22.1	22.2	21.1	20.3	20.2	10.1	10.9	9.8	8.6	9.4
Colored.....	27.0	27.9	26.0	26.3	27.4	26.7	26.2	25.0	8.6	9.3	8.1	7.1	7.5
Cities in birth registration area:													
Births.....	23.8	24.0	22.2	22.3	22.8	21.9	21.2	20.9	9.4	10.3	9.3	8.1	8.5
Deaths.....	23.8	23.9	22.1	22.2	22.5	21.7	20.9	20.6	9.8	10.5	9.6	8.3	8.8
Colored.....	21.0	25.4	23.7	25.2	27.6	27.0	26.3	25.5	3.2	5.3	4.6	3.3	3.3
Rural part of birth registration area:													
Births.....	23.6	24.7	22.8	22.5	22.4	20.9	20.1	20.4	10.6	11.3	10.0	8.9	10.0
Deaths.....	23.1	24.2	22.4	22.0	21.9	20.5	19.6	19.9	10.5	11.3	10.0	8.8	10.0
Colored.....	28.9	29.2	27.3	26.9	27.2	26.5	26.1	24.7	11.7	11.6	10.6	9.9	10.0

**No. 91.—BIRTHS AND EXCESS OF BIRTHS OVER DEATHS: RATES PER 1,000  
POPULATION, BY STATES—Continued**

Area	Births per 1,000 population							Excess of births over deaths per 1,000 population <sup>1</sup>					
	1920	1921	1922	1923	1924	1925	1926	1927	1923	1924	1925	1926	1927
Alabama.....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	26 5	(2)	(2)	(2)	(2)	15 9
White.....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	26 5	(2)	(2)	(2)	(2)	17 9
Colored.....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	26 4	(2)	(2)	(2)	(2)	12 1
Arizona.....	(2)	(2)	(2)	(2)	(2)	(2)	18 9	18 6	(2)	(2)	(2)	6 4	5 8
Arkansas.....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	21 0	(2)	(2)	(2)	(2)	11 5
White.....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	22 1	(2)	(2)	(2)	(2)	13 7
Colored.....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	17 7	(2)	(2)	(2)	(2)	4 9
California.....	19 3	20 2	19 8	21 1	22 2	20 4	19 2	19 0	6 8	7 7	6 8	5 5	5 1
Connecticut.....	24 5	24 0	21 5	20 8	21 1	18 9	18 2	17 7	8 8	9 8	7 7	6 8	7 5
Delaware.....	(2)	22 4	20 6	19 7	19 0	19 6	17 5	17 5	5 7	6 0	6 5	3 1	5 1
District of Columbia.....	19 9	20 5	20 7	18 9	19 1	17 7	16 9	16 7	4 0	5 6	4 1	2 9	3 8
White.....	19 1	19 5	19 6	17 7	17 4	16 0	15 0	15 0	5 4	6 2	5 0	3 7	4 6
Colored.....	22 5	23 5	23 9	22 6	24 1	23 2	23 0	22 4	-0 3	3 7	1 2	0 4	1 2
Florida.....	(2)	(2)	(2)	(2)	21 8	23 3	26 4	25 0	(2)	8 9	10 0	11 2	11 7
White.....	(2)	(2)	(2)	(2)	21 9	23 5	27 7	25 5	(2)	10 7	11 7	14 2	13 8
Colored.....	(2)	(2)	(2)	(2)	21 7	22 9	23 7	23 9	(2)	5 3	6 3	4 9	7 0
Idaho.....	(2)	(2)	(2)	(2)	(2)	(2)	17 8	17 2	(2)	(2)	(2)	10 4	10 1
Illinois.....	(2)	(2)	20 0	19 4	19 9	19 1	18 6	18 3	7 4	8 7	7 6	6 8	6 9
Indiana.....	22 0	23 0	21 4	21 7	22 3	20 8	20 1	19 8	8 8	10 1	8 3	7 3	7 8
Iowa.....	(2)	(2)	(2)	(2)	20 3	19 7	18 9	18 4	(2)	10 5	9 7	8 4	8 3
Kansas.....	22 3	23 3	21 6	21 8	21 0	20 3	19 3	19 0	10 8	11 1	10 1	8 8	8 8
Kentucky.....	26 0	27 6	25 4	26 3	26 9	25 3	24 0	24 6	14 4	16 1	14 0	12 1	13 9
White.....	26 8	28 6	26 6	27 4	27 7	25 9	24 4	25 0	16 3	17 8	15 5	13 5	15 2
Colored.....	17 6	19 0	13 9	16 5	19 5	19 8	19 4	19 2	-4 0	-0 6	-1 0	-3 1	-1 8
Louisiana.....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	23 9	(2)	(2)	(2)	(2)	11 6
White.....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	23 1	(2)	(2)	(2)	(2)	13 6
Colored.....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	25 6	(2)	(2)	(2)	(2)	7 9
Maine.....	22 5	22 9	22 6	22 6	23 7	22 2	20 8	20 6	7 6	9 9	8 5	6 4	6 8
Maryland.....	24 8	25 1	23 2	23 0	22 8	21 7	20 8	20 3	8 9	9 0	7 8	6 5	7 1
White.....	24 3	24 4	22 4	22 1	21 8	20 3	19 7	19 4	8 7	9 2	8 4	6 7	7 6
Colored.....	27 5	28 7	26 8	27 6	27 5	26 4	26 3	25 5	6 2	7 3	4 9	4 3	4 9
Massachusetts.....	23 6	23 5	22 1	22 1	22 3	20 8	19 9	19 4	9 1	10 3	8 3	7 4	7 8
Michigan.....	25 0	25 3	23 2	23 4	24 1	23 2	22 5	22 3	11 0	12 5	11 7	10 2	11 0
Minnesota.....	23 3	23 6	23 1	22 5	22 0	20 6	19 8	19 0	12 4	12 3	10 9	10 1	9 8
Mississippi.....	(2)	25 8	24 3	24 0	24 4	25 2	28 4	27 5	12 6	12 6	12 8	15 1	14 5
White.....	(2)	27 6	24 7	24 5	25 7	25 9	29 1	28 4	15 4	16 5	16 3	18 3	18 0
Colored.....	(2)	24 1	23 9	23 5	23 1	24 6	27 7	26 7	10 0	8 9	9 7	12 1	11 4
Missouri.....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	18 9	(2)	(2)	(2)	(2)	7 3
Montana.....	(2)	(2)	18 3	17 1	16 2	15 2	14 2	13 7	9 1	8 3	7 5	6 4	6 2
Nebraska.....	23 7	24 5	23 5	22 6	22 4	21 3	20 4	20 0	13 1	13 2	12 2	11 3	11 1
New Hampshire.....	22 4	22 8	21 9	20 8	22 5	20 8	19 2	19 3	5 7	8 3	6 3	4 4	5 4
New Jersey.....	(2)	24 1	22 5	22 1	22 3	20 6	19 7	19 4	9 8	10 4	8 9	7 5	8 2
New York.....	22 5	22 7	21 6	21 2	21 1	20 6	19 7	19 9	8 2	8 4	7 8	6 3	7 6
North Carolina.....	31 6	33 8	30 9	31 3	32 2	29 8	28 8	28 8	19 3	20 0	18 2	16 7	17 4
White.....	31 7	33 6	30 3	30 7	31 5	29 1	28 0	28 0	20 2	21 1	19 2	17 6	18 3
Colored.....	31 3	34 5	32 2	32 7	33 8	31 4	30 7	30 5	17 2	17 4	15 9	14 4	16 0
North Dakota.....	(2)	(2)	(2)	(2)	21 0	22 6	23 2	22 9	(2)	14 6	14 7	14 9	14 8
Ohio.....	21 3	21 9	20 4	21 0	21 2	19 6	18 8	18 4	8 7	10 0	8 2	6 9	7 4
Oregon.....	18 9	19 3	18 4	18 2	18 8	17 9	16 8	16 4	7 3	7 4	6 7	5 6	4 9
Pennsylvania.....	25 1	25 8	23 8	23 9	24 2	22 7	21 6	21 6	10 6	11 9	10 5	9 1	10 2
Rhode Island.....	(2)	23 6	23 1	23 0	22 4	21 2	19 6	19 5	9 2	9 9	9 1	6 9	8 3
South Carolina.....	28 2	29 5	26 9	25 4	26 9	(4)	(4)	(4)	13 6	13 9	(4)	(4)	(4)
White.....	28 8	29 9	27 1	26 4	27 3	(4)	(4)	(4)	16 9	16 9	(4)	(4)	(4)
Colored.....	27 7	29 1	26 7	24 4	26 5	(4)	(4)	(4)	10 3	10 9	(4)	(4)	(4)
Tennessee.....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	22 0	(2)	(2)	(2)	(2)	10 3
White.....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	22 3	(2)	(2)	(2)	(2)	12 3
Colored.....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	20 5	(2)	(2)	(2)	(2)	9
Utah.....	31 2	31 6	29 6	28 6	28 8	27 3	25 6	24 7	19 1	18 4	18 4	15 6	15 6
Vermont.....	21 0	22 5	21 3	20 8	21 0	21 3	20 3	19 9	5 6	7 2	6 7	5 5	6 0
Virginia.....	28 3	29 9	27 3	26 8	26 5	24 6	22 9	22 9	14 0	14 5	12 8	10 7	11 6
White.....	27 8	29 4	26 6	26 2	25 9	23 9	22 3	22 3	15 2	15 6	14 0	11 9	12 8
Colored.....	29 7	31 1	28 9	28 2	27 9	26 4	24 7	24 4	11 0	11 5	9 8	7 8	8 5
Washington.....	19 8	19 6	18 0	17 6	17 4	16 4	15 6	14 9	7 9	7 4	6 3	5 4	4 7
West Virginia.....	(2)	(2)	(2)	(2)	(2)	27 7	26 3	26 4	(2)	(2)	17 2	15 4	16 4
Wisconsin.....	22 2	23 0	21 4	21 5	21 4	20 1	19 3	19 7	10 8	11 2	9 8	8 8	9 6
Wyoming.....	(1)	(1)	25 1	23 4	24 1	21 1	18 6	18 6	13 1	14 6	12 8	10 5	10 4

<sup>1</sup> A minus sign indicates an excess of deaths over births.

<sup>2</sup> Not added to the birth registration area until a later date

<sup>3</sup> Not in the birth registration area in 1920

<sup>4</sup> Not in the birth registration area in 1925, 1926, and 1927.

Source Bureau of the Census, Department of Commerce.

## No. 92.—BIRTHS AND STILLBIRTHS, BY LEGITIMACY: BY STATES, 1927

Area	Births <sup>1</sup>			Stillbirths			Stillbirths per 100 live births		
	Total	Legitimate	Illegitimate	Total	Legitimate	Illegitimate	Total	Legitimate	Illegitimate
Birth registration area <sup>2</sup>	1,971, 198	1,916, 064	55, 134	77, 704	72, 981	4, 723	3 9	3 8	8 6
White.....	1, 765, 512	1, 736, 790	28, 722	62, 011	60, 208	1, 803	3 5	3 5	6 3
Colored.....	205, 686	179, 274	26, 412	15, 693	12, 773	2, 920	7 6	7 1	11 1
Alabama.....	67, 431	62, 696	4, 735	3, 319	2, 902	417	4 9	4 6	8 8
White.....	43, 868	43, 229	639	1, 616	1, 574	42	3 7	3 6	6 6
Colored.....	23, 563	19, 467	4, 096	1, 703	1, 328	375	7 2	6 8	9 2
Arizona.....	8, 538	8, 429	109	257	247	10	3 0	2 9	9 2
Arkansas.....	40, 340	38, 977	1, 363	1, 854	1, 696	158	4 6	4 4	11 6
White.....	31, 464	31, 063	401	1, 109	1, 076	33	3 5	3 5	8 2
Colored.....	8, 876	7, 914	962	745	620	125	8 4	7 8	18 0
Connecticut.....	28, 931	28, 493	438	996	980	16	3 4	3 4	3 7
Delaware.....	4, 263	4, 055	208	162	141	21	3 8	3 5	10 1
District of Columbia.....	9, 043	8, 433	560	448	386	62	5 0	4 6	11 1
White.....	6, 210	6, 091	119	228	222	6	3 7	3 6	5 0
Colored.....	2, 833	2, 392	441	220	164	56	7 8	6 9	12 7
Florida.....	34, 118	32, 522	1, 596	2, 273	2, 019	254	6 7	6 2	15 9
White.....	23, 843	23, 475	368	1, 066	970	96	4 2	4 1	9 8
Colored.....	10, 275	9, 047	1, 228	1, 267	1, 049	218	12 3	11 6	17 8
Idaho.....	9, 172	9, 092	80	220	216	4	2 4	2 4	5 0
Illinois.....	133, 662	131, 463	2, 194	4, 693	4, 600	93	3 5	3 5	4 2
Indiana.....	62, 298	61, 361	937	1, 936	1, 871	65	3 1	3 0	6 9
Iowa.....	44, 688	43, 987	701	1, 283	1, 261	22	2 9	2 9	3 1
Kansas.....	34, 730	34, 214	516	1, 118	1, 090	28	3 2	3 2	5 4
Kentucky.....	62, 323	61, 246	1, 077	2, 035	1, 904	131	3 3	3 1	12 2
White.....	53, 271	52, 553	718	1, 744	1, 681	63	3 0	2 9	8 8
Colored.....	4, 052	3, 693	359	291	223	68	7 2	6 0	18 8
Louisiana.....	46, 208	43, 234	2, 974	2, 489	2, 222	267	5 4	5 1	9 0
White.....	28, 796	28, 355	441	1, 065	1, 050	15	3 7	3 7	3 4
Colored.....	17, 412	14, 879	2, 533	1, 424	1, 172	252	8 2	7 9	9 9
Maine.....	16, 347	15, 898	449	641	617	24	3 9	3 9	5 3
Maryland.....	32, 495	30, 838	1, 657	2, 342	2, 069	273	7 2	6 7	16 5
White.....	25, 954	25, 509	445	1, 605	1, 520	85	6 2	6 0	18 7
Colored.....	6, 541	5, 329	1, 212	738	549	190	11 3	10 3	15 7
Michigan.....	100, 178	98, 238	1, 940	3, 834	3, 707	127	3 8	3 8	6 5
Minnesota.....	50, 908	49, 866	1, 042	1, 512	1, 472	40	3 0	3 0	3 8
Mississippi.....	49, 272	45, 627	3, 645	2, 620	2, 231	389	5 3	4 9	10 7
White.....	24, 235	23, 973	262	774	761	13	3 2	3 2	5 0
Colored.....	25, 037	21, 654	3, 383	1, 846	1, 470	376	7 4	6 8	11 1
Missouri.....	66, 432	64, 623	1, 809	3, 026	2, 826	200	4 6	4 4	11 1
Montana.....	9, 799	9, 663	136	314	306	8	3 2	3 2	5 9
Nebraska.....	27, 865	27, 365	470	889	868	21	3 2	3 2	4 5
New Hampshire.....	8, 798	8, 663	135	377	362	15	4 3	4 2	11 1
New Jersey.....	72, 814	71, 707	1, 107	3, 012	2, 918	94	4 1	4 1	8 5
New York.....	227, 603	224, 491	3, 112	9, 399	9, 160	239	4 1	4 1	7 7
North Carolina.....	83, 330	78, 269	5, 061	3, 570	3, 114	456	4 3	4 0	9 0
White.....	57, 635	56, 463	1, 172	1, 802	1, 744	58	3 1	3 1	4 9
Colored.....	25, 695	21, 806	3, 889	1, 768	1, 370	398	6 9	6 3	10 2
North Dakota.....	14, 707	14, 449	258	426	417	9	2 9	2 9	3 5
Ohio.....	123, 611	121, 134	2, 477	4, 630	4, 443	187	3 7	3 7	7 5
Oregon.....	14, 623	14, 402	221	444	436	8	3 0	3 0	3 6
Pennsylvania.....	210, 001	204, 782	5, 219	7, 732	7, 324	408	3 7	3 6	7 8
Rhode Island.....	13, 726	13, 474	252	475	454	21	3 5	3 4	8 3
Tennessee.....	54, 652	52, 678	1, 974	2, 228	2, 046	182	4 1	3 9	9 2
White.....	45, 821	45, 003	818	1, 544	1, 463	81	3 4	3 3	6 3
Colored.....	8, 831	7, 670	1, 161	684	583	101	7 7	7 2	11 3
Utah.....	12, 871	12, 759	112	304	301	3	2 4	2 4	2 7
Vermont.....	7, 022	6, 866	156	218	208	10	3 1	3 0	6 4
Virginia.....	58, 185	54, 702	3, 483	2, 504	2, 199	305	4 3	4 0	8 8
White.....	40, 886	40, 040	846	1, 310	1, 245	65	3 2	3 1	7 7
Colored.....	17, 299	14, 662	2, 637	1, 194	954	240	6 9	6 6	9 1
Washington.....	23, 315	22, 961	354	650	635	15	2 8	2 8	4 2
West Virginia.....	44, 857	43, 416	1, 441	1, 715	1, 633	82	3 8	3 8	5 7
Wisconsin.....	57, 570	56, 482	1, 088	1, 628	1, 573	55	2 8	2 8	5 1
Wyoming.....	4, 472	4, 424	48	131	127	4	2 9	2 9	8 3

<sup>1</sup> Stillbirths are excluded as in other tables<sup>2</sup> Exclusive of California and Massachusetts. These States do not require a statement of legitimacy of child

Source Bureau of the Census, Department of Commerce

# No. 93.—DEATHS OF INFANTS UNDER 1 YEAR OF AGE: NUMBER AND RATES, BY STATES, FOR THE BIRTH REGISTRATION AREA

NOTE—See general note, p. 77

Class or State	Number of infant deaths		Deaths of infants under 1 year of age per 1,000 births						
	1926	1927	1920	1922	1923	1924	1925	1926	1927
Total birth registration area.....	138, 118	138, 017	86	76	77	71	73	73	65
White.....	119, 449	116, 773	82	73	73	67	68	70	61
Colored.....	16, 669	21, 244	132	110	117	113	111	112	100
Cities (total).....	70, 784	66, 987	91	80	78	72	73	74	65
White.....	62, 852	57, 972	87	77	75	69	69	70	61
Colored.....	7, 932	9, 015	158	127	138	127	125	127	113
Rural part.....	65, 334	71, 030	81	72	76	69	70	72	64
White.....	56, 597	58, 801	76	69	72	65	67	69	60
Colored.....	8, 737	12, 229	118	102	106	105	101	101	92
Alabama.....	(1)	4, 340	(1)	(1)	(1)	(1)	(1)	(1)	64
White.....	(1)	2, 419	(1)	(1)	(1)	(1)	(1)	(1)	55
Colored.....	(1)	1, 921	(1)	(1)	(1)	(1)	(1)	(1)	82
Arizona.....	1, 017	1, 111	(1)	(1)	(1)	(1)	(1)	121	130
Arkansas.....	(1)	2, 456	(1)	(1)	(1)	(1)	(1)	(1)	61
White.....	(1)	1, 769	(1)	(1)	(1)	(1)	(1)	(1)	56
Colored.....	(1)	687	(1)	(1)	(1)	(1)	(1)	(1)	77
California.....	5, 202	5, 257	74	71	73	67	69	63	62
Connecticut.....	2, 102	1, 701	92	77	77	69	73	72	59
Delaware.....	392	301	(1)	100	104	95	91	93	71
District of Columbia.....	758	611	91	85	92	76	87	85	68
White.....	407	302	72	64	71	62	67	67	49
Colored.....	351	309	139	134	143	109	132	133	109
Florida.....	2, 602	2, 299	(1)	(1)	(1)	82	74	75	67
White.....	1, 539	1, 342	(1)	(1)	(1)	70	60	62	56
Colored.....	1, 063	957	(1)	(1)	(1)	107	105	107	93
Idaho.....	587	459	(1)	(1)	(1)	(1)	(1)	63	50
Illinois.....	9, 294	8, 605	(1)	76	82	71	73	69	64
Indiana.....	4, 543	3, 664	82	67	71	65	68	72	59
Iowa.....	2, 683	2, 478	(1)	(1)	(1)	55	56	59	55
Kansas.....	2, 293	1, 920	73	65	63	59	62	65	55
Kentucky.....	4, 574	3, 803	73	69	72	65	70	75	61
White.....	4, 020	3, 361	69	64	67	61	67	71	58
Colored.....	554	442	138	157	157	119	120	134	109
Louisiana.....	(1)	3, 578	(1)	(1)	(1)	(1)	(1)	(1)	77
White.....	(1)	1, 682	(1)	(1)	(1)	(1)	(1)	(1)	58
Colored.....	(1)	1, 739	(1)	(1)	(1)	(1)	(1)	(1)	109
Maine.....	1, 314	1, 308	102	86	89	81	76	80	80
Maryland.....	2, 863	2, 647	104	94	95	86	90	87	81
White.....	1, 843	1, 768	90	81	80	76	76	74	68
Colored.....	920	879	164	147	156	128	146	137	134
Massachusetts.....	6, 102	5, 310	91	81	78	68	73	73	66
Michigan.....	7, 623	6, 778	92	75	80	72	75	77	68
Minnesota.....	3, 019	2, 643	66	53	62	57	60	58	52
Mississippi.....	3, 558	3, 290	(1)	68	68	71	68	70	67
White.....	1, 460	1, 339	(1)	56	53	55	53	59	55
Colored.....	2, 098	1, 951	(1)	79	82	88	83	81	78
Missouri.....	(1)	3, 966	(1)	(1)	(1)	(1)	(1)	(1)	60
Montana.....	757	651	(1)	70	72	67	71	77	66
Nebraska.....	1, 673	1, 427	64	57	57	55	58	59	51
New Hampshire.....	686	609	88	80	93	80	76	79	69
New Jersey.....	5, 076	4, 467	(1)	79	72	70	69	70	61
New York.....	15, 721	13, 513	86	77	72	69	68	71	59
North Carolina.....	6, 769	6, 588	85	80	81	82	79	82	79
White.....	4, 022	3, 791	72	70	70	72	67	71	66
Colored.....	2, 747	2, 797	113	101	106	110	106	107	109
North Dakota.....	1, 032	832	(1)	(1)	(1)	67	72	69	63
Ohio.....	9, 407	7, 645	83	72	75	67	70	76	62
Oregon.....	774	695	62	53	57	54	51	53	48
Pennsylvania.....	17, 122	14, 486	97	88	90	79	82	82	69
Rhode Island.....	1, 114	913	(2)	85	94	80	73	82	67
South Carolina.....	(3)	(3)	116	93	96	102	(3)	(3)	(3)
White.....	(3)	(3)	83	67	70	77	(3)	(3)	(3)
Colored.....	(3)	(3)	148	119	125	127	(3)	(3)	(3)

<sup>1</sup> Not added to the birth registration area until a later date.

<sup>2</sup> Not in the birth registration area in 1920.

<sup>3</sup> Not in the birth registration area in 1925, 1926, and 1927.



No. 93.—DEATHS OF INFANTS UNDER 1 YEAR OF AGE: NUMBER AND RATES, BY STATES, FOR THE BIRTH REGISTRATION AREA—Continued

Class or State	Number of infant deaths		Deaths of infants under 1 year of age per 1,000 births						
	1926	1927	1920	1922	1923	1924	1925	1926	1927
Tennessee.....	(1)	3,885	(1)	(1)	(1)	(1)	(1)	(1)	71
White.....	(1)	2,948	(1)	(1)	(1)	(1)	(1)	(1)	64
Colored.....	(1)	942	(1)	(1)	(1)	(1)	(1)	(1)	107
Utah.....	986	639	71	69	50	64	56	75	54
Vermont.....	514	490	66	73	76	70	72	72	70
Virginia.....	4,836	4,392	84	77	84	78	81	84	75
White.....	2,900	2,551	72	65	70	66	68	72	62
Colored.....	1,936	1,841	110	102	115	104	111	111	106
Washington.....	1,952	1,162	66	62	57	56	56	56	50
West Virginia.....	3,595	2,227	(1)	(1)	(1)	(1)	65	80	82
Wisconsin.....	3,845	3,403	77	71	70	65	67	69	59
Wyoming.....	333	308	(1)	79	80	64	61	71	69
Hawaii.....	1,159	1,132	(9)	(9)	(9)	(9)	(9)	(9)	(9)
Total for area having birth registration in 1917 <sup>6</sup> .....	96,429	83,372	86	77	77	71	73	75	65

<sup>1</sup> Not added to the birth registration area until later date.

<sup>4</sup> Not included in the total.

<sup>5</sup> Not in the birth registration area.

<sup>6</sup> Exclusive of Rhode Island.

Source: Bureau of the Census, Department of Commerce

No. 94.—DEATHS OF INFANTS UNDER 1 YEAR OF AGE: RATES PER 1,000 BIRTHS, BY PRINCIPAL CAUSES, FOR THE BIRTH REGISTRATION AREA

NOTE—See general note, p 77

Cause of death	Deaths under 1 year of age per 1,000 births											
	Entire registration area							Registration area as of 1917 (exclusive of Rhode Island)				
	1920	1922	1923	1924	1925	1926	1927	1920	1924	1925	1926	1927
All causes under 1 year of age.....	85.8	76.2	77.1	70.8	71.7	73.3	64.8	83.1	70.8	72.8	75.1	64.5
Measles.....	1.0	.6	1.2	.8	.3	1.1	.4	1.0	.7	.4	1.2	.3
Scarlet fever.....	1	1	1	1	1	1	1	1	1	1	(1)	1
Whooping cough.....	3.0	1.4	2.4	2.1	1.8	2.3	1.9	3.0	2.1	1.6	1.6	1.8
Diphtheria <sup>1</sup> .....	5	.5	.4	3	.3	.2	.2	.5	.3	.3	.2	.2
Influenza and pneumonia.....	5.9	4.7	5.1	3.9	4.4	5.3	3.7	5.7	3.8	4.4	5.4	3.6
Dysentery.....	.4	.3	.3	.3	.3	.3	.3	.3	.2	.3	.3	.2
Erysipelas.....	.4	.4	.4	.4	.3	.4	.4	.4	.4	.4	.4	.4
Tetanus.....	1	1	1	1	1	1	1	1	1	1	(1)	(1)
Tuberculosis (all forms).....	1.0	.9	.8	.6	.6	.3	.6	1.0	.7	.7	.7	.6
Syphilis.....	.9	.8	.8	.7	.7	.6	.7	.8	.6	.7	.6	.7
Convulsions.....	1.0	.8	.7	.7	.7	.6	.5	1.0	.8	.7	.6	.5
Bronchitis and broncho-pneumonia.....	9.6	9.0	8.8	7.8	7.7	8.8	6.4	10.1	8.2	8.0	9.4	6.8
Diseases of the stomach <sup>2</sup> .....	1.2	.8	.8	.7	.6	.5	.5	1.1	.6	.6	.5	.5
Diarrhea and enteritis <sup>3</sup> .....	14.9	11.7	11.5	9.2	11.2	9.7	7.8	15.2	9.0	11.2	9.6	7.3
Congenital malformations.....	6.2	6.3	6.3	6.1	6.2	6.2	5.6	6.4	6.2	6.3	6.3	6.2
Congenital debility and other diseases of early infancy.....	7.7	6.4	6.5	6.0	5.9	5.5	4.8	7.7	6.1	6.1	5.6	5.0
Premature birth.....	19.4	18.1	17.8	17.7	17.2	17.7	16.8	19.1	17.8	17.6	18.3	17.8
Injury at birth.....	3.7	4.5	4.6	4.8	4.9	4.9	4.8	3.9	4.8	4.6	4.9	5.1
External causes.....	1.0	.9	1.0	1.0	1.0	1.1	1.0	1.0	1.0	1.0	1.1	.9
Unknown or ill-defined diseases.....	2.5	2.6	2.4	2.4	2.2	2.3	3.1	2.5	2.2	2.0	2.1	2.0
All other causes.....	5.4	5.3	5.0	5.0	5.2	5.1	4.9	5.3	5.1	5.4	5.3	5.0

<sup>1</sup> Less than one-tenth of 1 per 1,000 births.

<sup>2</sup> Includes croup in 1920.

<sup>3</sup> Excludes ulcer of the duodenum in 1920.

<sup>4</sup> Includes ulcer of the duodenum in 1920.

Source of Tables 93 and 94: Bureau of the Census, Department of Commerce.

**No. 95.—DEATHS OF INFANTS UNDER 1 YEAR OF AGE: RATES PER 1,000 BIRTHS ACCORDING TO AGE SUBDIVISIONS, FOR THE ENTIRE BIRTH REGISTRATION AREA AND FOR THE REGISTRATION AREA<sup>1</sup> AS OF 1917**

NOTE —See general note, p 77

Age	Deaths under 1 year of age per 1,000 births												
	Entire registration area							Registration area as of 1917 <sup>1</sup>					
	1920	1922	1923	1924	1925	1926	1927	1920	1924	1925	1926	1927	
<b>Total under 1 year.....</b>	<b>85 8</b>	<b>76 2</b>	<b>77 1</b>	<b>70 8</b>	<b>71 7</b>	<b>73 3</b>	<b>64 6</b>	<b>86 1</b>	<b>70 8</b>	<b>72 8</b>	<b>75 1</b>	<b>64 5</b>	
Under 1 day.....	14 8	14 9	14 7	14 8	15 0	15 2	15 1	14 8	14 8	15 0	15 3	15 1	
1 day.....	4 6	4 4	4 4	4 2	4 2	4 2	4 1	4 6	4 2	4 3	4 3	4 2	
2 days.....	3 4	3 3	3 3	3 3	3 2	3 2	3 0	3 4	3 3	3 2	3 2	3 1	
3 to 8 days.....	6 4	6 4	6 1	6 2	5 8	5 7	5 3	6 4	6 2	5 9	5 9	5 4	
1 week.....	5 4	4 9	4 9	4 6	4 4	4 3	3 9	5 4	4 6	4 5	4 4	3 8	
2 weeks.....	3 8	3 3	3 4	2 9	2 9	3 0	2 6	3 8	3 0	3 0	3 1	2 6	
3 weeks.....	3 1	2 6	2 7	2 5	2 3	2 4	2 2	3 1	2 5	2 4	2 5	2 2	
Under 1 month.....	41 5	39 7	39 5	38 6	37 8	37 9	36 1	41 5	38 7	38 3	38 6	36 5	
1 month.....	7 3	6 2	6 4	5 8	5 8	6 0	5 1	7 2	5 8	5 9	6 2	5 1	
2 months.....	5 7	4 8	4 9	4 4	4 6	4 7	4 0	5 7	4 4	4 7	4 7	4 0	
3 to 5 months.....	13 1	10 7	11 2	9 5	10 3	10 4	8 6	13 2	9 5	10 5	10 6	8 5	
6 to 8 months.....	10 0	8 2	8 4	6 9	7 5	7 9	6 1	10 1	6 8	7 5	8 2	5 9	
9 to 11 months.....	8 3	6 6	6 8	5 6	5 8	6 5	4 7	8 5	5 6	5 9	6 8	4 5	

<sup>1</sup> Exclusive of Rhode Island

Source Bureau of the Census, Department of Commerce.

**No. 96.—HOMICIDES AND SUICIDES: NUMBER AND RATE IN CITIES HAVING 100,000 POPULATION OR MORE IN 1900**

Year	Estimated population, July 1	Homicides		Suicides	
		Number	Rate per 100,000 population	Number	Rate per 100,000 population
1900.....	14,133,877	481	3 4	2,099	14 9
1902.....	14,899,699	567	3 8	2,487	16 7
1903.....	15,286,581	636	4 2	2,758	18 0
1904.....	15,670,701	723	4 6	2,998	19 1
1905.....	16,104,214	983	6 1	3,126	19 4
1906.....	16,594,107	1,189	7 2	2,984	18 0
1907.....	17,072,832	1,455	8 5	3,319	19 4
1908.....	17,541,214	1,401	8 0	3,957	22 6
1909.....	18,018,210	1,252	6 9	3,772	20 9
1910.....	18,522,956	1,479	8 0	3,743	20 2
1911.....	18,958,147	1,505	7 9	3,880	20 5
1912.....	19,413,308	1,504	7 7	3,868	19 9
1913.....	19,847,428	1,702	8 6	3,957	19 9
1914.....	20,273,425	1,715	8 5	4,351	21 5
1915.....	20,729,640	1,698	8 2	4,455	21 5
1916 <sup>1</sup> .....	21,021,720	1,786	8 5	3,892	18 5
1917.....	21,616,460	2,061	9 5	3,816	17 7
1918.....	22,038,899	1,865	8 5	3,351	15 2
1919.....	22,563,206	2,006	8 9	3,229	14 3
1920.....	22,996,227	1,930	8 4	2,910	12 7
1921.....	23,330,469	2,168	9 3	3,731	16 0
1922.....	23,716,781	2,211	9 3	3,625	15 3
1923.....	24,151,350	2,435	10 1	3,692	15 3
1924.....	24,570,289	2,682	10 9	3,855	15 7
1925.....	24,979,551	2,808	11 2	4,000	16 0
1926.....	25,387,577	2,715	10 7	4,264	16 8
1927.....	25,855,136	2,771	10 7	4,492	17 4

<sup>1</sup> Excludes Memphis, Tenn.

# **No. 97.—BIRTH AND DEATH REGISTRATION: STATES INCLUDED IN REGISTRATION AREA WITH YEAR WHEN EACH WAS ADDED**

Death registration States				Birth registration States			
State	Year	State	Year	State	Year	State	Year
Massachusetts	1880	Utah	1910	Connecticut	1915	California	1919
New Jersey		Kentucky	1911	Maine		Oregon	
Dist of Col.		Missouri		Massachusetts		South Carolina <sup>6</sup>	
Connecticut		Virginia		Michigan		Nebraska	1920
Delaware <sup>1</sup>	1890	Kansas	1913	Minnesota	1916	Delaware	
New Hampshire		South Carolina	1916	New Hampshire		Mississippi	1921
New York		Tennessee	1917	New York		New Jersey	
Rhode Island		Illinois	1918	Pennsylvania	1916	Illinois	
Vermont	1900	Louisiana		Rhode Island <sup>1</sup>		Montana	1922
Maine		Oregon		Vermont		Wyoming	
Michigan		Florida	1919	Dist of Col.	1917	Florida	
Indiana		Mississippi		Maryland		Iowa	1924
California	1906	Nebraska		Indiana		North Dakota	
Colorado		Georgia <sup>4</sup>	1920	Kansas		West Virginia	1925
Maryland		Idaho	1922	Kentucky	1917	Arizona	
Pennsylvania		Wyoming		North Carolina		Idaho	1926
South Dakota <sup>2</sup>	1908	Iowa		Ohio		Alabama	
Washington		North Dakota	1923	Utah		Arkansas	1927
Wisconsin		Alabama	1924	Virginia		Louisiana	
Ohio	1909	West Virginia	1925	Washington		Missouri	
Minnesota		Arizona		Wisconsin		Tennessee	
Montana		Arkansas	1927				
North Carolina <sup>3</sup>	1910						

<sup>1</sup> Dropped from the area in 1900, readmitted in 1919.

<sup>2</sup> Dropped from the area in 1910.

<sup>3</sup> Included only municipalities having a population of 1,000 or more in 1900; remainder added in 1916.

<sup>4</sup> State registration law declared unconstitutional, dropped from the area in 1925.

<sup>5</sup> Dropped from the area in 1919; readmitted in 1921.

<sup>6</sup> Dropped from the area in 1925.

NOTE.—The Territory of Hawaii was added to the death registration area in 1917, the Virgin Islands, to both the death and the birth registration areas in 1924.

Source Bureau of the Census, Department of Commerce.

# **No. 98.—MARRIAGES AND DIVORCES: NUMBER AND RATIO OF DIVORCES TO MARRIAGES, CONTINENTAL UNITED STATES**

NOTE.—Statistics for annulments were collected for the first time in 1926, when 3,825 annulments were reported representing 1 marriage annulled to every 47 3 marriages terminated by divorce. In 1927, 4,252 annulments were reported, representing 1 marriage annulled to every 45 2 marriages terminated by divorce.

Calendar year	Marriages, number	Divorces				Number of di- vorces per 1,000 mar- riages	
		Total number	Granted to husband		Granted to wife		
			Number	Per cent	Number		Per cent
1889	531,457	31,735	11,126	35 1	20,609	64 9	60
1890	542,637	33,461	11,625	34 7	21,836	65 3	62
1891	562,412	35,540	12,478	35 1	23,062	64.9	63
1892	577,870	36,579	12,577	34 4	24,002	65 6	63
1893	578,673	37,468	12,590	33 6	24,878	66 4	65
1894	566,161	37,568	12,551	33 4	25,017	66 6	66
1895	598,855	40,387	13,456	33 3	26,931	66 7	67
1896	613,873	42,937	14,448	33 6	28,489	66 4	70
1897	622,350	44,699	14,765	33 0	29,934	67 0	72
1898	625,655	47,949	15,938	32.4	31,861	66 6	73
1899	650,610	51,437	16,925	32 9	34,512	67 1	79
1900	685,284	55,751	18,620	33 4	37,131	66 6	81
1901	716,621	60,984	20,008	32 8	40,976	67 2	85
1902	746,733	61,480	20,056	32 6	41,424	67 4	82
1903	786,132	64,925	21,321	32 8	43,604	67 2	83
1904	781,145	66,199	22,189	33 5	44,010	66.5	85
1905	804,787	67,976	22,220	32 7	45,756	67 3	84
1906	853,290	72,062	23,455	32 5	48,607	67 5	84
1916	1,040,684	112,036	33,809	31 1	74,893	68 9	108
1922	1,134,151	148,815	47,359	32 0	100,416	68 0	131
1923	1,229,784	165,096	52,969	32.2	111,480	67 8	134
1924	1,184,674	170,952	52,984	31 5	115,328	68 5	144
1925	1,188,334	175,449	52,147	30 1	121,333	69 9	148
1926	1,202,674	180,853	52,834	29 5	126,563	70 5	150
1927	1,201,053	192,037	54,637	29 0	134,048	71 0	160

<sup>1</sup> Includes divorces for which the libellant was not reported. Percentages, however, are based on the total number for which libellant was reported.

Source Bureau of the Census, Department of Commerce.

## No. 99.—MARRIAGES, DIVORCES, AND ANNULMENTS: By STATES

Division and State	Marriages				Divorces				Number of divorces per 1,000 marriages		Number of annulments, 1927
	Number		Per 1,000 of the population <sup>1</sup>		Number		Per 1,000 of the population <sup>1</sup>				
	1926	1927	1926	1927	1926	1927	1926	1927			
Continental United States.....	1,202,574	1,201,053	10 3	10 1	180,853	192,037	1 54	1 62	150	180	4,252
New England.....	61,999	61,824	7 7	7 6	7,459	7,820	.92	.98	120	126	111
Maine.....	6,376	6,279	8 1	7 9	1,213	1,311	1 54	1 65	190	203	6
New Hampshire.....	4,620	4,847	10 2	10 7	608	646	1 34	1 42	132	137	7
Vermont.....	2,805	2,766	8 0	7 8	397	287	1 13	.73	142	93	4
Massachusetts.....	30,584	30,408	7 2	7 2	3,307	3,459	.79	.82	108	114	68
Rhode Island.....	5,328	5,461	7 7	7 8	702	722	1 01	1 03	132	132	---
Connecticut.....	12,285	12,063	7 6	7 4	1,232	1,425	.77	.87	100	118	26
Middle Atlantic.....	221,611	218,185	9 0	8 8	14,924	16,125	.61	.65	67	74	992
New York.....	120,965	118,719	10 7	10 4	4,674	5,000	.41	.44	39	42	871
New Jersey.....	28,424	28,316	7 7	7 6	2,544	3,041	.69	.81	90	107	65
Pennsylvania.....	72,222	71,130	7 5	7 3	7,706	8,084	.80	.83	107	114	56
East North Central.....	234,527	233,724	9 7	9 5	47,820	50,674	1 98	2 06	204	217	516
Ohio.....	55,147	59,296	8 4	8 8	13,976	14,646	2 12	2 18	253	247	77
Indiana.....	40,409	41,112	12 9	13 1	7,685	8,077	2 46	2 56	190	196	96
Illinois.....	82,529	80,222	11 5	11 0	14,125	14,984	1 96	2 05	171	187	216
Michigan.....	39,788	36,276	9 1	8 1	9,648	10,525	2 19	2 34	242	290	86
Wisconsin.....	16,654	16,818	5 8	5 8	2,386	2,442	.83	.84	143	145	41
West North Central.....	122,278	121,251	9 8	9 2	22,947	23,564	1 75	1 79	188	194	200
Minnesota.....	23,713	23,328	8 9	8 7	2,784	2,822	1 05	1 05	117	121	23
Iowa.....	20,966	21,048	8 7	8 7	4,080	4,226	1 68	1 74	195	201	30
Missouri.....	37,722	37,298	10 8	10 6	9,836	9,651	2 81	2 75	261	259	86
North Dakota.....	3,958	3,973	6 2	6 2	483	506	.75	.79	122	127	8
South Dakota.....	6,004	6,004	8 7	8 6	589	665	.85	.96	98	111	13
Nebraska.....	9,662	9,800	7 0	7 0	1,395	1,620	1 01	1 16	144	165	57
Kansas.....	20,253	19,800	11 1	10 8	3,780	4,074	2 08	2 23	187	206	33
South Atlantic.....	175,666	172,478	11 2	10 9	14,934	15,386	.95	.97	85	89	207
Delaware.....	1,109	1,154	4 6	4 7	201	163	.84	.67	181	141	2
Maryland.....	25,831	25,025	16 3	15 7	1,883	2,059	1 19	1 29	73	82	21
Dist. of Columbia.....	5,514	5,543	10 4	10 3	96	146	.18	.27	17	26	24
Virginia.....	21,345	22,163	8 5	8 7	3,000	3,000	1 19	1 18	141	135	27
West Virginia.....	18,275	19,287	10 9	11 4	1,998	2,135	1 20	1 26	109	111	53
North Carolina.....	22,691	22,204	7 9	7 7	1,591	1,642	.56	.57	70	74	29
South Carolina <sup>2</sup> .....	23,971	25,433	13 1	13 8	---	---	---	---	---	---	6
Georgia.....	28,484	30,447	9 1	9 6	2,153	2,230	.69	.70	76	73	28
Florida.....	28,446	21,222	21 6	15 6	4,012	4,011	3 05	2 94	141	189	17
East South Central.....	120,092	123,140	12 9	13 2	15,443	15,119	1 66	1 72	129	131	43
Kentucky.....	28,585	30,231	11 3	11 9	4,519	4,614	1 79	1 82	158	153	14
Tennessee.....	32,692	33,613	13 2	13 5	4,682	4,878	1 90	1 96	143	145	13
Alabama.....	30,103	29,655	11 9	11 6	3,477	3,734	1 38	1 46	116	126	8
Mississippi.....	28,712	29,641	16 0	16 6	2,765	2,893	1 54	1 62	96	98	8
West South Central.....	146,179	149,355	12 7	12 8	26,467	31,066	2 57	2 67	202	208	266
Arkansas.....	28,250	26,716	14 8	13 9	4,741	4,409	2 49	2 29	168	165	8
Louisiana.....	20,751	19,941	10 8	10 3	1,856	1,725	.97	.89	89	87	16
Oklahoma.....	27,276	28,656	11 6	12 0	7,398	7,642	3 16	3 21	271	267	127
Texas.....	69,902	74,042	13 2	13 7	15,472	17,290	2 91	3 20	221	234	115
Mountain.....	38,663	41,466	9 8	10 3	8,576	9,754	2 18	2 43	222	235	306
Montana.....	5,183	5,356	7 5	9 8	1,277	1,316	1 84	2 40	246	246	30
Idaho.....	4,404	4,501	8 4	8 4	921	973	1 76	1 82	209	216	22
Wyoming.....	1,911	1,818	8 1	7 5	645	627	2 73	2 60	338	345	2
Colorado.....	11,957	11,969	11 3	11 1	2,288	2,370	2 16	2 21	191	198	74
New Mexico.....	4,476	4,748	11 5	12 1	537	646	1 35	1 65	120	136	7
Arizona.....	4,077	4,959	9 2	10 8	876	888	1 97	1 93	215	179	13
Utah.....	5,427	5,717	10 6	11 0	1,011	981	1 97	1 88	186	172	19
Nevada.....	1,223	2,398	15 9	31 0	1,021	1,953	13 19	25 23	831	814	39
Pacific.....	81,559	79,650	12 1	11 6	19,283	21,529	2 86	3 13	236	270	1,712
Washington.....	17,810	18,801	11 6	12 0	4,134	4,277	2 69	2 74	232	227	52
Oregon.....	7,085	7,362	8 1	8 3	3,084	3,117	3 52	3 50	435	423	31
California.....	56,664	53,487	13 1	12 1	12,065	14,135	2 80	3 19	213	264	1,029

<sup>1</sup> Based on estimated population for the given year shown in Table 11, p. 7.<sup>2</sup> No divorces are granted in South Carolina.

Source. Bureau of the Census, Department of Commerce.

## 4. IMMIGRATION AND EMIGRATION

In compiling immigration statistics for the United States, Alaska, Hawaii, and Porto Rico, beginning 1904, 1901, and 1902, respectively, were included. In prior years the transfer of population between them and the United States was considered immigration

### No. 100.—IMMIGRATION: 1821 TO 1928

NOTE.—For 1821 to 1855 the figures represent alien passengers arriving; for 1856 to 1903, immigrants arriving; for 1904 to 1906, aliens admitted, for 1907 to date, immigrant aliens admitted. Data are for fiscal years ended June 30 except as noted, for periods they are totals, not annual averages

Period or year	Number	Year	Number	Year	Number	Year	Number
1821-1830 <sup>1</sup>	143, 439	1875	227, 498	1895	258, 536	1915	326, 700
1831-1840 <sup>2</sup>	599, 125	1876	169, 986	1896	343, 267	1916	298, 826
1841-1850 <sup>3</sup>	1, 713, 251	1877	141, 857	1897	230, 532	1917	295, 403
1851-1860 <sup>4</sup>	2, 511, 060	1878	138, 469	1898	229, 209	1918	110, 618
1861-1870	2, 377, 279	1879	177, 526	1899	311, 715	1919	141, 132
1871-1880	2, 812, 191	1880	457, 257	1900	448, 572	1920	430, 001
1881-1890	5, 246, 613	1881	669, 431	1901	487, 218	1921	805, 228
1891-1900	3, 687, 564	1882	788, 992	1902	648, 743	1922	309, 556
1901-1910	8, 795, 886	1883	603, 322	1903	857, 076	1923	522, 919
1911-1920	5, 735, 811	1884	518, 592	1904	812, 870	1924	706, 896
1900-1904	3, 255, 149	1885	395, 343	1905	1, 026, 499	1925	204, 314
1905-1909	4, 947, 249	1886	344, 203	1906	1, 100, 735	1926	304, 488
1910-1914	5, 174, 701	1887	490, 109	1907	1, 285, 349	1927	335, 175
1915-1919	1, 172, 679	1888	543, 889	1908	782, 870	1928	307, 255
1920-1924	2, 774, 600	1889	444, 427	1909	751, 786		
1870	287, 203	1890	455, 302	1910	1, 041, 570	Calendar years:	
1871	321, 350	1891	560, 319	1911	878, 587	1925	290, 725
1872	404, 806	1892	579, 663	1912	838, 172	1926	336, 296
1873	459, 803	1893	439, 730	1913	1, 197, 892	1927	323, 885
1874	313, 336	1894	285, 631	1914	1, 218, 480	1928	290, 297

<sup>1</sup> Oct 1, 1820, to Sept. 30, 1830

<sup>2</sup> Oct 1, 1830, to Dec 31, 1840

<sup>3</sup> Jan 1, 1841, to Dec. 31, 1850

<sup>4</sup> Jan 1, 1851, to June 30, 1860

### No. 101.—ADMISSIONS AND DEPARTURES OF ALIENS

Period or year ended—	Admitted			Departed			Excess of admissions over departures	
	Immigrant	Nonimmigrant	Total	Emigrant	Nonemigrant	Total	Immigrant over emigrant	Total
June 30								
1919-1914, total	5, 171, 701	901, 099	6, 075, 800	1, 442, 892	1, 316, 762	2, 759, 654	3, 731, 809	3, 316, 146
1915-1919, total	1, 172, 679	440, 064	1, 612, 743	618, 223	562, 636	1, 180, 859	554, 456	431, 884
1920-1924, total	2, 774, 600	810, 352	3, 584, 952	892, 984	723, 824	1, 616, 808	1, 881, 616	1, 968, 144
1908	752, 870	141, 825	924, 695	395, 073	319, 755	714, 828	387, 797	209, 867
1909	751, 786	192, 449	944, 235	225, 802	174, 590	400, 392	526, 984	543, 843
1910	1, 041, 570	156, 467	1, 198, 037	202, 436	177, 982	380, 418	839, 134	817, 619
1911	878, 587	151, 713	1, 030, 300	295, 666	222, 549	518, 215	582, 921	512, 085
1912	838, 172	178, 983	1, 017, 155	333, 262	228, 060	615, 262	604, 910	401, 863
1913	1, 197, 892	229, 335	1, 427, 227	308, 190	303, 734	611, 924	889, 702	815, 303
1914	1, 218, 480	184, 001	1, 403, 081	303, 338	330, 467	633, 805	915, 142	789, 276
1915	326, 700	107, 544	434, 244	204, 074	180, 100	384, 174	122, 626	50, 070
1916	298, 826	67, 922	366, 748	129, 765	111, 042	240, 807	160, 061	125, 941
1917	295, 403	67, 474	362, 877	66, 277	80, 102	146, 379	229, 126	216, 498
1918	110, 618	101, 235	211, 853	94, 585	98, 683	193, 268	16, 033	18, 585
1919	141, 132	95, 889	237, 021	123, 522	92, 709	216, 231	17, 610	20, 790
1920	430, 001	191, 575	621, 576	283, 315	139, 717	423, 032	141, 686	193, 514
1921	805, 228	172, 935	978, 163	247, 718	178, 513	426, 031	557, 510	552, 132
1922	309, 556	122, 949	432, 505	198, 712	146, 672	345, 384	110, 844	87, 121
1923	522, 919	150, 487	673, 406	81, 450	119, 136	200, 586	441, 469	472, 820
1924	706, 896	172, 466	879, 302	76, 789	139, 556	216, 345	630, 107	662, 557
1925	294, 314	164, 121	458, 435	92, 728	132, 762	225, 490	201, 586	232, 945
1926	304, 488	191, 618	496, 106	76, 992	150, 763	227, 755	227, 496	208, 351
1927	335, 175	202, 826	538, 001	73, 366	180, 142	253, 508	261, 809	284, 493
1928	307, 255	193, 376	500, 631	77, 457	196, 899	274, 356	229, 798	220, 275
Dec 31								
1926	336, 295	204, 095	540, 390	73, 179	163, 271	236, 450	263, 116	303, 940
1927	323, 885	197, 010	520, 895	75, 122	193, 750	268, 872	248, 763	252, 023
1928	290, 297	197, 385	487, 682	77, 599	194, 509	272, 108	212, 698	215, 574

Source of Tables 100 and 101. Commissioner General of Immigration, Department of Labor.

**No. 102.—IMMIGRANT ALIENS ADMITTED AND ALIENS DEBARRED AND DEPORTED: YEARS ENDED JUNE 30**

Period or year	Admitted	Debarred	Deported	Year	Admitted	Debarred	Deported
1900-1904, total..	3,255, 149	29, 499	2, 510	1918-----	110, 618	7, 297	1, 569
1905-1909, total..	4, 947, 239	58, 688	6, 709	1919-----	141, 132	8, 626	3, 068
1910-----	1, 041, 570	24, 270	2, 695	1920-----	430, 001	11, 795	2, 762
1911-----	878, 587	22, 349	2, 788	1921-----	805, 228	13, 779	4, 517
1912-----	838, 172	16, 057	2, 456	1922-----	309, 556	13, 731	4, 345
1913-----	1, 197, 892	19, 938	3, 461	1923-----	522, 919	20, 619	3, 661
1914-----	1, 218, 480	33, 041	4, 610	1924-----	706, 896	30, 284	6, 409
1915-----	326, 700	24, 111	2, 564	1925-----	294, 314	25, 890	9, 495
1916-----	298, 826	18, 867	2, 781	1926-----	304, 488	20, 550	10, 904
1917-----	295, 403	16, 028	1, 833	1927-----	335, 175	19, 755	11, 662
				1928-----	307, 255	18, 839	11, 625

**No. 103.—IMMIGRANT ALIENS ADMITTED: BY OCCUPATION, AMOUNT OF MONEY BROUGHT, ETC., YEARS ENDED JUNE 30**

	1910-1914, total	1915-1919, total	1920-1924, total	1925	1926	1927	1928
<b>Occupations</b>							
Professional-----	62, 124	41, 308	79, 309	10, 481	10, 861	11, 542	10, 931
Skilled-----	747, 794	198, 985	510, 236	51, 278	56, 827	61, 733	58, 928
Unskilled-----	2, 882, 435	417, 805	954, 418	93, 290	102, 761	121, 235	99, 621
Commercial <sup>1</sup> -----	72, 572	36, 926	59, 924	5, 219	5, 801	6, 116	4, 965
Miscellaneous-----	55, 279	49, 254	95, 895	14, 597	13, 301	8, 938	7, 718
<b>Bringing—</b>							
Less than \$50-----	3, 222, 314	480, 506	954, 147	102, 611	111, 802	126, 504	113, 614
\$50 or more-----	674, 931	378, 449	822, 386	111, 827	119, 879	131, 446	119, 501
Amount brought (\$1,000)-----	171, 406	84, 870	171, 467	22, 358	25, 182	21, 821	20, 954
<b>Passage paid by—</b>							
Self-----	3, 460, 555	708, 655	1, 569, 835	153, 020	171, 164	200, 038	181, 043
Relative-----	1, 657, 869	429, 701	1, 123, 827	135, 769	128, 075	130, 813	120, 367
Others-----	56, 277	34, 323	80, 938	5, 525	5, 249	4, 324	5, 845
<b>Going to join—</b>							
Relative-----	4, 169, 633	758, 897	2, 132, 479	224, 324	230, 243	246, 791	222, 305
Friend-----	706, 468	173, 946	277, 995	28, 256	27, 982	30, 867	31, 000
No one-----	298, 600	239, 836	364, 126	41, 734	46, 263	57, 517	53, 950

<sup>1</sup> Agents, bankers, hotel keepers, manufacturers, and merchants and dealers

**No. 104.—IMMIGRANT ALIENS ADMITTED AND EMIGRANT ALIENS DEPARTED, BY SEX AND AGE; AND ILLITERACY OF IMMIGRANTS: YEARS ENDED JUNE 30**

	1900-1909, total	1910-1914, total	1915-1919, total	1920-1924, total	1925	1926	1927	1928
<b>ADMISSIONS</b>								
<b>Total-----</b>	<b>8, 202, 388</b>	<b>5, 174, 701</b>	<b>1, 172, 679</b>	<b>2, 774, 600</b>	<b>294, 314</b>	<b>304, 488</b>	<b>335, 175</b>	<b>307, 265</b>
Males-----	5, 710, 052	3, 442, 917	688, 881	1, 577, 496	163, 252	170, 567	194, 163	165, 977
Females-----	2, 492, 336	1, 731, 784	483, 798	1, 197, 104	131, 062	133, 921	141, 012	141, 278
Males per 1,000 females-----	4, 580	1, 988	1, 424	1, 318	1, 246	1, 274	1, 377	1, 175
<b>Under 16 years<sup>1</sup>-----</b>	<b>992, 656</b>	<b>657, 825</b>	<b>195, 241</b>	<b>516, 293</b>	<b>50, 722</b>	<b>47, 347</b>	<b>51, 689</b>	<b>49, 680</b>
16 to 44 years <sup>1</sup> -----	6, 803, 052	4, 229, 546	853, 348	2, 003, 466	213, 980	228, 527	254, 574	230, 832
45 years and over-----	406, 680	287, 330	124, 090	254, 841	29, 612	28, 614	28, 912	26, 743
<b>Illiterates, number<sup>2</sup>-----</b>	<b>1, 924, 786</b>	<b>1, 143, 266</b>	<b>116, 749</b>	<b>75, 231</b>	<b>1, 930</b>	<b>2, 804</b>	<b>5, 513</b>	<b>5, 916</b>
Per cent-----	23 5	22 1	10 0	2 7	0 7	0 9	1 6	1 9
<b>DEPARTURES<sup>3</sup></b>								
<b>Total-----</b>	<b>1, 442, 892</b>	<b>618, 223</b>	<b>892, 984</b>	<b>92, 728</b>	<b>76, 992</b>	<b>73, 366</b>	<b>77, 457</b>	
Males-----	1, 163, 750	495, 643	682, 170	70, 865	54, 989	51, 536	54, 786	
Females-----	279, 142	122, 580	210, 814	21, 863	22, 003	21, 830	22, 671	
Males per 1,000 females-----	4, 169	4, 043	3, 236	3, 241	2, 499	2, 361	2, 417	
<b>Under 16 years<sup>1</sup>-----</b>	<b>69, 018</b>	<b>38, 883</b>	<b>39, 280</b>	<b>4, 414</b>	<b>3, 347</b>	<b>2, 986</b>	<b>3, 500</b>	
16 to 44 years <sup>1</sup> -----	1, 217, 753	488, 282	635, 980	68, 403	57, 956	54, 217	56, 118	
45 years and over-----	156, 121	91, 058	217, 724	19, 911	15, 659	16, 163	17, 839	

<sup>1</sup> Prior to 1918 the division point is 14 years

<sup>2</sup> Unable to read or write in any language.

<sup>3</sup> Not available prior to 1908

Source of Tables 102, 103, and 104 Commissioner General of Immigration, Department of Labor.

# No. 105.—IMMIGRATION, BY COUNTRY OF LAST PERMANENT RESIDENCE, 1831 TO 1920

NOTE.—For 1831 to 1867 figures represent alien passengers arriving, for 1868 to 1903, immigrants arriving; for 1904 to 1906, aliens admitted, thereafter, immigrant aliens admitted. Owing to changes in the lists of countries separately reported and to changes in boundaries, data for certain countries are not comparable throughout. For immigration since 1920, rendered incomparable in many cases by changes in boundaries, see Table 106. Data are totals (not annual averages) for periods ended June 30 since 1870, Dec 31 theretofore, except as noted.

Country	1831-1840 <sup>1</sup>	1841-1850	1851-1860	1861-1870 <sup>2</sup>	1871-1880	1881-1890	1891-1900	1901-1910	1911-1920
<b>Total immigrants</b>	599, 125	1, 713, 251	2, 598, 214	2, 314, 824	2, 812, 191	5, 246, 613	3, 637, 564	8, 795, 386	5, 735, 811
<b>Total Europe</b>	495, 688	1, 597, 501	2, 452, 860	2, 065, 270	2, 272, 262	4, 737, 048	3, 558, 978	8, 136, 016	4, 376, 564
Austria-Hungary				7, 800	72, 969	353, 719	592, 707	2, 145, 266	896, 342
Belgium	22	5, 074	4, 738	6, 734	7, 221	20, 177	18, 167	41, 635	33, 746
Denmark	1, 063	539	3, 749	17, 094	31, 771	83, 132	50, 231	65, 285	41, 983
France	45, 575	77, 262	76, 358	35, 986	72, 206	50, 464	30, 770	73, 379	61, 897
Germany	152, 454	434, 626	951, 667	787, 468	718, 182	1, 452, 970	505, 152	341, 498	143, 945
Greece	49	16	31	72	210	2, 308	15, 979	167, 519	184, 201
Italy	2, 253	1, 870	9, 231	11, 725	55, 759	307, 309	651, 893	2, 045, 877	1, 109, 524
Netherlands	1, 412	8, 251	10, 789	9, 102	16, 541	53, 701	26, 758	48, 262	43, 718
Norway					95, 323	176, 586	95, 015	190, 505	66, 395
Sweden	1, 201	13, 903	20, 931	109, 298	115, 922	391, 776	226, 266	249, 534	95, 074
Poland <sup>3</sup>	369	105	1, 164	2, 027	12, 970	51, 808	96, 720		4, 813
Rumania					11	6, 348	12, 750	53, 008	13, 311
Russia and Finland	277	551	457	2, 512	39, 284	213, 282	505, 290	1, 597, 306	921, 957
Spain	2, 125	2, 209	9, 298	6, 697	5, 266	4, 419	8, 731	27, 935	68, 611
Portugal	829	550	1, 055	2, 658	14, 082	16, 978	27, 508	69, 149	89, 732
Switzerland	4, 821	4, 644	25, 011	23, 286	28, 293	81, 988	31, 179	34, 922	23, 091
Turkey in Europe <sup>4</sup>	7	59	83	129	337	1, 562	3, 786	119, 256	77, 210
United Kingdom	283, 191	1, 047, 763	1, 338, 093	1, 042, 674	984, 914	1, 462, 839	659, 954	865, 015	487, 589
England	7, 611	32, 092	247, 125	222, 277	437, 706	644, 680	216, 726	388, 017	249, 944
Ireland	207, 381	780, 719	914, 119	435, 778	436, 871	655, 482	388, 416	339, 065	146, 181
Scotland	2, 667	3, 712	38, 331	38, 769	87, 564	149, 869	44, 188	120, 469	78, 357
Wales	185	1, 261	6, 319	4, 313	6, 631	12, 640	10, 557	17, 464	13, 107
Not specified	65, 347	229, 979	132, 199	341, 537	16, 142	168	67		
Other Europe	40	79	5	8	1, 001	682	122	665	<sup>5</sup> 13, 425
<b>Total Asia<sup>6</sup></b>	48	32	41, 455	64, 630	123, 823	68, 380	71, 236	243, 567	192, 559
China <sup>6</sup>		35	41, 397	64, 301	123, 201	61, 711	14, 799	20, 605	21, 278
Japan <sup>6</sup>	8			186	149	2, 270	25, 942	129, 797	83, 837
Turkey in Asia <sup>7</sup>				2	67	2, 220	26, 799	77, 393	79, 389
Other Asia <sup>6</sup>	40	47	58	141	406	2, 179	3, 696	15, 772	8, 055
<b>Total America<sup>8</sup></b>	33, 424	62, 469	74, 720	166, 607	404, 044	426, 967	38, 972	361, 889	1, 143, 671
Canada and Newfoundland <sup>8</sup>	13, 624	41, 723	59, 309	153, 878	383, 640	393, 304	3, 311	179, 226	742, 185
Mexico <sup>8</sup>	6, 599	3, 271	3, 078	2, 191	5, 162	1, 913	971	49, 642	219, 004
Central America <sup>9</sup>	44	368	449	95	157	404	549	8, 192	17, 159
South America <sup>9</sup>	856	3, 679	1, 224	1, 397	1, 128	2, 304	1, 075	17, 280	41, 899
West Indies <sup>6</sup>	12, 301	13, 528	10, 660	9, 046	13, 957	29, 042	33, 066	107, 548	123, 424
Africa <sup>9</sup>	54	55	210	312	358	857	350	7, 368	8, 443
Australia, Tasmania, and New Zealand				36	9, 886	7, 017	2, 740	11, 975	12, 348
Pacific Islands (not specified)					1, 028	5, 557	1, 225	1, 049	1, 079
All other countries	69, 911	53, 144	29, 169	17, 969	790	789	14, 063	33, 523	1, 147

<sup>1</sup> Oct. 1, 1830, to Dec. 31, 1840

<sup>2</sup> Jan. 1, 1861, to June 30, 1870.

<sup>3</sup> From 1899 to 1919 Poland is included with Austria-Hungary, Germany, and Russia

<sup>4</sup> Includes Bulgaria and prior to 1920, Serbia and Montenegro

<sup>5</sup> Includes 1920 figures for Czechoslovakia and Yugoslavia.

<sup>6</sup> Included in "All other countries" in 1892

<sup>7</sup> Included in "All other countries" in 1892, in "Other Asia" in 1893 and 1894.

<sup>8</sup> Immigrants from Canada, Newfoundland, and Mexico not reported from 1886 to 1893, inclusive.

<sup>9</sup> Included in "All other countries" in 1892 and 1893.

Source: Reports of the Commissioner General of Immigration, Department of Labor.

## No. 106.—IMMIGRANT ALIENS ADMITTED AND EMIGRANT ALIENS

NOTE—Residence for a year or more is regarded as permanent

Country	Fiscal years ended June 30—								
	1910-1914, total			1915-1919, total			1920-1924, total		
	Ad- mitted	De- parted	Excess	Ad- mitted	De- parted	Excess	Ad- mitted	De- parted	Excess
All countries, total.	5,174,701	1,442,892	3,731,809	1,172,679	618,223	554,456	2,774,600	892,984	1,881,616
Europe, total.....	4,524,189	1,176,037	3,348,152	532,391	421,761	110,630	1,787,803	758,619	1,028,684
Albania.....							1,250	1,284	1-34
Austria.....	575,852	181,494	394,358	13,322	7,338	5,984	25,842	4,716	21,126
Hungary.....	553,801	174,362	379,439	11,752	5,864	5,888	25,262	32,110	-6,848
Belgium.....	28,450	4,727	23,723	4,124	1,047	3,077	17,936	5,668	12,268
Bulgaria.....	24,821	20,514	4,307	2,359	5,996	-3,637	1,914	7,559	-5,645
Czechoslovakia.....							34,245	38,087	46,158
Denmark.....	33,470	2,804	30,666	12,360	2,317	10,043	21,910	4,110	17,800
Estonia.....							1,765	111	3,754
Finland.....							14,624	5,794	8,830
France.....	43,004	17,003	26,001	17,331	17,014	317	33,484	12,816	20,668
Germany.....	161,195	27,938	133,257	13,032	2,227	10,805	149,103	15,401	133,702
Greece.....	132,212	70,708	61,504	65,896	35,106	30,790	52,144	51,481	663
Italy.....	1,104,833	405,723	699,110	125,083	228,842	-103,759	460,644	236,985	223,659
Latvia.....							11,473	167	11,403
Lithuania.....							12,369	1,335	12,024
Netherlands.....	35,734	2,777	32,957	10,331	1,925	8,406	20,603	3,553	17,050
Norway.....	57,079	9,245	47,834	22,409	7,885	14,524	40,891	8,756	32,135
Poland.....							183,881	102,376	81,505
Portugal.....	51,902	8,477	43,425	30,587	11,833	18,754	41,770	21,749	20,021
Rumania.....	12,851	2,331	10,520	715	355	360	61,093	36,863	24,230
Russia.....	1,054,608	153,470	901,138	52,390	36,354	16,036	54,692	26,575	28,117
Spain.....	28,631	8,723	19,908	24,631	16,879	7,752	45,077	20,124	24,953
Sweden.....	89,215	9,340	79,875	23,742	6,241	17,501	57,883	9,934	47,949
Switzerland.....	18,811	2,817	15,994	4,028	1,284	2,744	21,480	3,825	17,655
Turkey in Europe.....	69,651	19,939	49,712	1,498	277	1,221	15,208	2,671	12,537
United Kingdom <sup>1</sup> .....	445,940	53,555	392,386	92,383	32,182	60,201	301,471	48,307	253,164
England.....	218,767	28,939	189,828	50,012	21,364	28,648	122,676	52,238	70,438
Ireland.....	137,410	13,346	124,064	28,035	5,817	23,218	81,456	10,472	70,984
Scotland.....	78,391	9,465	68,926	10,784	4,507	6,277	90,809	5,122	85,687
Wales.....	11,372	805	10,567	2,602	434	2,168	6,631	475	6,156
Yugoslavia.....							43,487	55,296	-11,809
Other Europe.....	2,109	90	2,019	4,418	795	3,623	7,812	3,166	4,646
Asia, total.....	132,041	32,749	99,292	66,546	20,016	46,530	95,572	49,678	42,894
China.....	9,800	12,157	-2,357	11,116	10,636	480	22,723	22,477	246
Japan.....	30,564	10,692	19,872	46,561	6,138	40,423	22,723	22,477	246
India.....	2,795	747	2,048	683	868	-185	1,611	1,044	567
Syria, Palestine, and Iraq.....							12,946	1,492	12,454
Turkey in Asia.....	83,900	8,560	75,340	5,668	648	5,022	23,769	6,980	16,789
Other Asia.....	4,982	593	4,389	2,518	1,728	790	2,887	669	2,218
America, total.....	508,682	229,928	278,754	564,345	173,654	390,691	883,989	81,042	802,947
Canada and Newfoundland.....	329,316	195,872	133,444	379,399	95,827	283,572	526,853	22,980	503,873
Central America.....	6,423	1,984	4,439	9,269	2,363	6,906	8,859	3,377	5,482
Mexico.....	88,358	4,146	84,212	96,976	45,510	51,466	255,774	23,182	232,592
South America.....	18,306	6,318	11,988	21,632	4,963	16,669	25,802	7,331	18,471
West Indies.....	64,023	21,427	42,596	56,837	24,890	31,947	65,771	24,068	41,703
Other America.....	256	181	75	232	101	131	930	104	826
Africa.....	5,985	1,161	4,824	2,882	460	2,422	3,917	672	3,245
Australia, Tasmania, New Zealand.....	5,341	2,854	2,487	5,939	1,833	4,106	6,458	2,804	3,654
Pacific Islands, not specified.....	483	63	320	576	499	77	361	169	192

<sup>1</sup> Figures for 1924 only. Data for prior years included with countries to which they formerly belonged.

Source: Annual Reports of the Commissioner General of Immigration, Department of Labor.



## DEPARTED: BY COUNTRY OF LAST OR FUTURE PERMANENT RESIDENCE

residence Excess of departures indicated by minus sign (—)

Fiscal years ended June 30—								Calendar year 1928		Country
1925		1926		1927		1928		Ad- mitted	De- parted	
Ad- mitted	De- parted	Ad- mitted	De- parted	Ad- mitted	De- parted	Ad- mitted	De- parted			
294, 314	92, 728	304, 488	76, 992	335, 175	73, 366	307, 255	77, 457	290, 297	77, 599	All countries, total
148, 366	75, 064	155, 562	60, 040	168, 368	55, 402	158, 513	57, 185	156, 586	56, 586	Europe, total.
79	334	158	314	243	237	263	90	308	92	Albania
899	466	1, 102	487	1, 016	498	1, 277	580	1, 237	524	Austria
618	875	906	871	813	841	857	920	954	927	Hungary.
726	459	718	491	764	482	698	485	692	590	Belgium.
140	208	175	88	222	130	158	110	210	82	Bulgaria.
2, 462	2, 723	2, 953	2, 301	3, 540	2, 276	3, 571	2, 070	3, 978	2, 047	Czechoslovakia.
2, 444	562	2, 549	691	2, 505	536	2, 473	540	2, 464	594	Denmark
131	5	132	15	139	14	136	11	138	34	Estonia.
480	464	491	519	438	536	473	585	460	608	Finland.
3, 906	1, 205	4, 181	1, 011	4, 405	1, 637	4, 438	2, 030	4, 445	1, 957	France
46, 068	3, 646	50, 421	3, 908	48, 513	4, 748	45, 778	6, 645	45, 294	7, 549	Germany
826	6, 574	1, 121	5, 164	2, 089	3, 130	2, 328	2, 461	2, 890	2, 364	Greece
6, 203	27, 151	8, 253	19, 980	17, 297	17, 759	17, 728	17, 324	18, 016	15, 047	Italy
263	29	298	58	408	21	258	55	333	58	Latvia
472	511	636	408	770	314	531	319	549	340	Lithuania.
1, 723	743	1, 753	379	1, 733	456	1, 843	514	1, 788	560	Netherlands.
5, 975	1, 765	5, 756	2, 087	6, 068	1, 786	5, 660	1, 686	5, 793	1, 378	Norway.
5, 341	3, 721	7, 126	2, 881	9, 211	2, 650	8, 755	3, 071	8, 426	2, 756	Poland
619	3, 600	666	2, 926	567	2, 347	584	1, 358	516	2, 344	Portugal.
1, 163	1, 433	1, 211	1, 404	1, 270	1, 248	1, 376	1, 002	1, 568	887	Rumania.
1, 775	539	1, 766	181	1, 183	239	1, 254	426	1, 183	452	Russia.
275	3, 982	326	2, 465	429	2, 178	455	1, 983	479	1, 587	Spain
8, 365	1, 123	8, 513	1, 150	8, 287	1, 115	8, 051	1, 282	8, 208	1, 329	Sweden
2, 069	467	1, 994	486	2, 121	594	1, 994	726	2, 162	699	Switzerland
263	100	210	30	216	24	242	38	180	16	Turk in Europe.
53, 822	9, 825	50, 425	7, 349	52, 214	7, 693	45, 226	8, 876	42, 608	9, 989	U Kingdom. <sup>1</sup>
13, 897	6, 681	10, 599	4, 921	9, 990	4, 994	7, 338	6, 039	7, 230	6, 708	England.
26, 650	1, 133	24, 897	1, 059	28, 545	1, 214	25, 268	1, 300	22, 992	1, 545	Ireland
12, 878	1, 068	13, 661	1, 332	12, 611	1, 441	11, 085	1, 498	11, 057	1, 693	Scotland
897	53	1, 268	37	1, 068	44	1, 535	39	1, 329	43	Wales.
724	2, 464	1, 050	2, 342	1, 190	1, 911	1, 386	1, 941	1, 418	1, 740	Yugoslavia
537	90	663	54	722	32	720	57	769	66	Other Europe.
3, 578	5, 411	3, 413	4, 931	3, 669	6, 007	3, 380	6, 073	3, 541	5, 485	Asia, total
1, 937	3, 412	1, 751	2, 989	1, 471	4, 179	1, 320	4, 364	1, 332	3, 824	China.
723	1, 212	654	1, 208	723	1, 205	550	1, 085	678	1, 039	Japan.
65	128	93	113	102	126	102	156	100	139	India.
670	479	679	381	1, 054	327	1, 058	322	1, 082	356	Syria, Palestine, and Iraq.
51	89	37	169	60	74	59	61	62	60	Turkey in Asia.
132	91	199	71	259	96	291	85	287	67	Other Asia
141, 496	11, 561	144, 393	11, 485	161, 872	11, 303	144, 281	13, 620	129, 071	14, 899	America, total.
102, 753	2, 580	93, 368	2, 456	84, 580	2, 440	75, 281	3, 061	65, 551	2, 866	Canada and Newfoundland.
1, 199	661	1, 374	560	1, 771	721	1, 751	758	1, 342	739	Central America.
32, 964	2, 954	43, 316	3, 198	67, 721	2, 957	59, 016	3, 957	54, 276	5, 349	Mexico.
2, 470	1, 331	3, 107	1, 425	3, 777	1, 453	4, 166	1, 600	3, 822	1, 677	South America.
2, 106	4, 035	3, 222	3, 839	4, 019	3, 732	4, 058	4, 244	3, 879	4, 268	West Indies
4	-----	6	1	4	-----	9	-----	1	-----	Other America
412	154	529	126	520	112	475	141	489	185	Africa.
416	503	556	391	712	508	578	425	610	428	Australia, Tas- mania, New Zea- land
46	35	35	19	34	34	28	13	20	16	Pacific Islands, not specified.

<sup>1</sup> Figures for 1924 to 1928 include Irish Free State.

## No. 107.—IMMIGRANT ALIENS ADMITTED AND EMIGRANT ALIENS DE

NOTE.—Excess of departures indicated by minus sign (—).

Race or people	Fiscal years ended June 30—								
	1910-1914, total			1915-1919, total			1920-1924, total		
	Ad- mitted	De- parted	Excess	Ad- mitted	De- parted	Excess	Ad- mitted	De- parted	Excess
Total .....	5, 174, 701	1, 442, 892	3, 731, 809	1, 172, 679	618, 223	554, 456	2, 774, 600	892, 984	1, 881, 616
African (black) .....	33, 527	6, 603	26, 924	29, 736	7, 092	22, 644	43, 092	8, 239	34, 853
Armenian .....	30, 960	4, 164	26, 796	3, 620	2, 485	1, 135	20, 559	1, 571	18, 988
Bohemian and Mo- ravian (Czech) .....	47, 143	5, 182	41, 961	2, 799	1, 187	1, 612	17, 650	8, 072	9, 578
Bulgarian, Serbian, Montenegrin .....	60, 180	35, 846	24, 334	8, 141	7, 128	1, 013	14, 509	43, 069	-28, 560
Chinese .....	9, 061	11, 957	-2, 896	9, 824	10, 207	-583	19, 374	21, 884	-2, 510
Croatian and Slo- venian .....	162, 693	59, 480	103, 213	3, 094	2, 666	428	23, 611	15, 398	8, 213
Cuban .....	17, 038	7, 964	9, 074	12, 620	8, 424	4, 196	6, 490	5, 278	1, 212
Dalmatian, Bos- nian, Herzegovin- ian .....	22, 552	4, 021	18, 631	532	130	402	2, 166	3, 375	-1, 209
Dutch and Flemish .....	64, 882	9, 097	55, 785	23, 446	4, 878	18, 568	42, 936	9, 820	33, 116
East Indian .....	2, 824	675	2, 149	360	649	-289	1, 046	779	267
English .....	267, 713	48, 262	219, 451	146, 945	46, 730	100, 215	297, 885	47, 433	250, 452
Finnish .....	97, 717	15, 637	82, 080	17, 856	4, 737	13, 119	15, 311	6, 087	9, 224
French .....	96, 439	18, 567	77, 872	75, 997	21, 824	54, 173	148, 132	17, 527	130, 605
German .....	363, 930	67, 420	296, 510	45, 795	5, 295	40, 500	223, 894	20, 712	203, 182
Greek .....	192, 247	76, 093	116, 154	71, 313	35, 218	36, 095	59, 076	51, 833	7, 243
Hebrew .....	495, 459	33, 031	462, 428	65, 674	3, 112	62, 562	286, 560	2, 344	284, 216
Irish .....	183, 471	19, 005	164, 466	74, 168	11, 540	62, 628	149, 781	12, 747	137, 034
Italian (north) .....	174, 871	64, 304	110, 567	21, 671	17, 273	4, 398	67, 105	32, 296	34, 809
Italian (south) .....	971, 366	352, 486	618, 880	122, 991	214, 081	-91, 090	401, 834	205, 941	195, 893
Japanese .....	30, 788	10, 756	20, 032	46, 469	6, 012	40, 457	37, 304	17, 907	19, 397
Korean .....	276	320	-44	720	221	499	447	179	268
Lithuanian .....	100, 050	17, 181	82, 869	4, 011	1, 105	2, 906	6, 672	11, 322	-4, 650
Magyar .....	146, 045	72, 833	73, 212	5, 103	2, 830	2, 273	30, 034	33, 460	-3, 426
Mexican .....	82, 538	3, 434	79, 154	91, 075	44, 768	46, 307	249, 248	22, 058	227, 190
Pacific Islander .....	88	12	76	44	20	24	63	16	47
Pohsh .....	581, 979	145, 735	436, 244	18, 076	9, 577	8, 499	62, 603	99, 471	-36, 868
Portuguese .....	47, 742	7, 472	40, 270	30, 671	11, 565	19, 106	42, 591	22, 241	20, 350
Rumanian .....	65, 360	19, 881	45, 479	2, 919	1, 219	1, 700	11, 467	36, 495	-25, 028
Russian .....	155, 002	51, 904	103, 098	16, 073	29, 008	-12, 935	21, 628	17, 472	4, 156
Ruthenian .....	134, 911	21, 454	113, 457	5, 661	925	4, 736	5, 438	1, 687	3, 751
Scandinavian (Nor- wegians, Danes, and Swedes) .....	204, 287	40, 812	163, 475	80, 033	21, 507	58, 526	137, 719	25, 205	112, 514
Scotch .....	110, 820	16, 572	94, 248	56, 743	11, 422	45, 321	161, 379	8, 673	152, 706
Slovak .....	132, 165	58, 983	73, 182	3, 010	3, 109	-99	56, 625	33, 506	23, 119
Spanish .....	43, 031	13, 895	29, 136	42, 119	22, 334	19, 782	60, 110	24, 810	35, 300
Spanish-American .....	6, 302	2, 103	4, 199	11, 458	3, 223	8, 235	13, 760	6, 430	7, 330
Syrian .....	35, 519	5, 219	30, 300	3, 860	955	2, 905	12, 288	5, 737	6, 551
Turkish .....	8, 245	6, 244	2, 001	985	636	349	1, 125	2, 746	-1, 621
Welsh .....	12, 109	1, 444	10, 665	4, 052	1, 016	3, 036	8, 423	669	7, 764
West Indian (other than Cuban) .....	5, 990	2, 523	3, 467	5, 095	2, 365	2, 730	7, 753	3, 418	4, 335
Other peoples .....	17, 181	5, 369	11, 812	7, 923	3, 020	4, 903	6, 912	5, 137	1, 775
Not specified .....	99, 042		-87, 230	36, 730		-31, 887			

Source. Annual reports of the Commissioner General of Immigration, Department of Labor.

## PARTED WITH EXCESS OF ADMISSIONS OR DEPARTURES: BY RACE

For percentage distribution of immigrants see Table 108

Fiscal years ended June 30—								Calendar year, 1923		Race or people
1925		1926		1927		1928		Ad-mitted	De-parted	
Ad-mitted	De-parted	Ad-mitted	De-parted	Ad-mitted	De-parted	Ad-mitted	De-parted			
294, 314	92, 728	304, 488	76, 992	335, 175	73, 366	307, 255	77, 457			
Total.										
791	1, 094	894	865	955	870	956	789	1, 106	592	African (black).
576	100	741	90	983	51	1, 062	47	1, 004	37	Armenian.
1, 833	2, 128	2, 494	1, 468	2, 406	1, 724	1, 248	1, 327	1, 313	1, 564	Bohemian and Moravian (Czech).
418	1, 741	532	1, 681	600	1, 592	531	1, 396	570	1, 419	Bulgarian, Serbian, and Montenegrin.
1, 721	3, 263	1, 375	2, 873	1, 051	4, 117	931	4, 300	1, 027	3, 730	Chinese.
520	767	692	592	821	251	938	534	1, 162	291	Croatian and Slovenian.
912	1, 287	1, 476	1, 287	1, 919	980	2, 058	1, 282	1, 888	1, 272	Cuban.
51	467	75	545	69	380	95	361	112	492	Dalmatian, Bosnian, and Herzegovinian.
3, 189	1, 238	3, 156	993	3, 125	1, 005	2, 880	1, 084	2, 799	1, 226	Dutch and Flemish.
45	91	50	69	51	83	38	106	51	55	East Indian.
50, 580	9, 108	44, 206	6, 935	40, 165	7, 449	33, 597	8, 780	29, 521	10, 437	English.
689	476	674	560	629	577	544	647	518	657	Finnish.
23, 240	1, 261	22, 237	1, 277	19, 313	1, 761	17, 963	1, 915	15, 671	1, 754	French.
54, 215	4, 352	58, 675	4, 509	56, 587	5, 515	54, 187	8, 086	53, 906	8, 746	German.
1, 088	6, 659	1, 885	5, 188	2, 557	3, 140	2, 848	2, 525	3, 005	2, 409	Greek.
10, 292	291	10, 267	341	11, 483	224	11, 639	253	11, 598	215	Hebrew.
42, 661	1, 432	42, 475	1, 225	44, 726	1, 432	38, 193	1, 649	34, 031	1, 742	Irish.
1, 784	4, 601	1, 486	3, 036	2, 637	2, 209	2, 653	1, 626	2, 728	3, 907	Italian (north).
5, 512	22, 651	7, 888	16, 968	15, 892	15, 627	16, 087	15, 834	16, 297	11, 254	Italian (south).
682	1, 170	598	1, 201	660	1, 148	522	1, 055	629	1, 035	Japanese.
26	31	52	27	47	52	22	39	39	30	Korean.
329	527	393	439	549	331	326	351	357	355	Lithuanian.
885	1, 030	1, 076	1, 063	1, 049	916	1, 112	1, 024	1, 268	1, 004	Magyar.
32, 378	2, 875	42, 638	3, 158	66, 766	2, 774	57, 765	3, 873	53, 080	5, 334	Mexican.
3	7	2	1	8	7	2	3	6	3	Pacific Islander.
3, 178	3, 693	3, 175	2, 823	4, 249	2, 725	4, 238	3, 046	3, 846	2, 794	Polish.
720	3, 653	793	2, 989	843	2, 363	844	1, 430	798	2, 401	Portuguese.
391	1, 343	319	1, 302	422	1, 201	443	908	485	840	Rumanian.
1, 225	887	938	581	1, 249	510	1, 249	642	1, 255	667	Russian.
667	76	505	65	445	19	411	59	496	30	Ruthenian.
20, 146	3, 811	19, 418	4, 188	19, 235	3, 678	18, 664	3, 767	18, 742	3, 611	Scandinavian (Norwegians, Danes, and Swedes).
27, 503	2, 555	27, 293	1, 912	25, 544	1, 930	23, 177	2, 268	21, 542	1, 829	Scotch.
620	635	534	850	1, 017	993	2, 197	746	2, 180	519	Slovak.
688	4, 661	699	2, 972	1, 065	2, 781	1, 018	2, 678	849	1, 997	Spanish.
2, 349	1, 322	2, 519	1, 404	3, 185	1, 792	3, 490	1, 720	3, 287	1, 868	Spanish-American.
450	420	488	260	684	203	613	232	641	218	Syrian.
87	153	197	201	112	166	143	116	124	76	Turkish.
1, 167	81	1, 314	76	1, 300	65	1, 723	85	1, 566	80	Welsh.
325	446	373	660	381	754	394	785	327	906	West Indian (other than Cuban).
498	345	381	318	396	241	484	189	473	203	Other peoples.
										Not specified.

**No. 108.—IMMIGRANT ALIENS ADMITTED: PERCENTAGES, BY RACE OR PEOPLE, YEARS ENDED JUNE 30**

Race or people	1910-1914	1920-1924	1925-1928	1927	1928	Race or people	1910-1914	1920-1924	1925-1928	1927	1928
<b>Total</b> .....	<b>100 0</b>	<b>100.0</b>	<b>100 0</b>	<b>100.0</b>	<b>100 0</b>	Italian (south).....	18.8	14.5	3.7	4.7	5.2
African (black).....	.6	1.6	.3	.3	.3	Japanese.....	.6	1.3	.2	.2	.2
Armenian.....	.6	.7	.3	.3	.3	Korean.....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Bohemian and Moravian (Czech).....	.9	.6	.6	.7	.4	Lithuanian.....	1.9	.2	.1	.2	.1
Bulgarian, Serbian, and Montenegrin.....	1.2	.5	.2	.2	.2	Magyar.....	2.8	1.1	.3	.3	.4
Chinese.....	.2	.7	.4	.3	.3	Mexican.....	1.6	9.0	16.1	19.9	18.8
Croatian and Slovenian.....	3.1	.9	.2	.3	3	Pacific Islander.....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Cuban.....	.3	.2	.5	.6	.7	Polish.....	11.2	2.3	1.2	1.3	1.4
Dalmatian, Bosnian, Herzegovinian.....	.4	.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	Portuguese.....	.9	1.5	.3	.3	.3
Dutch and Flemish.....	1.3	1.5	1.0	.9	.9	Rumanian.....	1.3	.4	.1	.1	.1
East Indian.....	.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	Russian.....	3.0	.8	.4	.4	.4
English.....	5.2	10.7	13.6	12.0	10.9	Ruthenian.....	2.6	.2	.2	.1	.1
Finnish.....	1.1	.6	.2	.2	.2	Scandinavian (Norwegians, Danes, Swedes).....	3.9	5.0	6.2	5.7	6.1
French.....	1.9	5.3	6.7	5.8	5.8	Scotch.....	2.1	5.8	8.3	7.6	7.5
German.....	7.0	8.1	18.0	16.9	17.6	Slovak.....	2.6	2.0	.4	.3	.7
Greek.....	3.7	2.1	.6	.8	.9	Spanish.....	.8	2.2	.3	.3	.3
Hebrew.....	9.6	10.3	3.5	3.4	3.3	Spanish-American.....	1.1	.5	.9	1.0	1.1
Irish.....	3.5	5.4	13.5	13.9	12.4	Syrian.....	.7	.4	.2	.2	.2
Italian (north).....	3.4	2.4	.7	.8	.9	Turkish.....	.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	.1
						Welsh.....	.2	.3	.4	.4	.6
						West Indian (other than Cuban).....	.1	.3	.1	.1	.2
						Other peoples.....	.3	.2	.1	.1	.2

<sup>1</sup> Less than one-tenth of 1 per cent

Source Commissioner General of Immigration, Department of Labor.

**No. 109.—IMMIGRANT ALIENS ADMITTED AND EMIGRANT ALIENS DEPARTED: BY RACE OR PEOPLE AND BY SEX, YEAR ENDED JUNE 30, 1928**

NOTE.—For totals of both sexes combined, by race, see Table 107

Race or people	Admitted		Departed		Race or people	Admitted		Departed	
	Male	Female	Male	Female		Male	Female	Male	Female
<b>Total</b> .....	<b>165, 977</b>	<b>141, 278</b>	<b>54, 786</b>	<b>22, 671</b>	Japanese.....	358	164	753	302
African (black).....	463	493	358	431	Korean.....	19	3	30	9
Armenian.....	264	798	35	12	Lithuanian.....	107	219	229	122
Bohemian and Moravian.....	625	623	916	411	Magyar.....	501	611	630	394
Bulgarian, Serbian, and Montenegrin.....	245	286	1, 139	257	Mexican.....	37, 965	19, 800	2, 709	1, 164
Chinese.....	668	203	4, 049	251	Pacific Islander.....	2		1	2
Croatian and Slovenian.....	330	608	456	78	Polish.....	2, 381	1, 857	2, 191	855
Cuban.....	1, 551	507	875	407	Portuguese.....	562	282	1, 176	254
Dalmatian, Bosnian, Herzegovinian.....	46	49	224	137	Rumanian.....	162	281	625	283
Dutch and Flemish.....	1, 573	1, 307	648	436	Russian.....	600	649	476	166
East Indian.....	37	1	104	2	Ruthenian (Russian).....	234	177	46	13
English.....	16, 894	16, 703	4, 786	3, 994	Scandinavian (Norwegians, Danes, Swedes).....	11, 716	6, 948	2, 506	1, 261
Finnish.....	244	300	391	256	Scotch.....	11, 454	11, 723	1, 229	1, 039
French.....	9, 926	8, 037	965	950	Slovak.....	1, 191	1, 006	581	165
German.....	29, 222	24, 935	4, 366	3, 720	Spanish.....	592	426	2, 193	385
Greek.....	696	2, 152	2, 184	341	Spanish-American.....	2, 052	1, 438	1, 069	651
Hebrew.....	5, 311	6, 328	184	69	Syrian.....	226	387	162	70
Irish.....	19, 412	18, 781	862	787	Turkish.....	72	71	98	18
Italian (north).....	1, 169	1, 484	1, 201	425	Welsh.....	1, 016	707	57	28
Italian (south).....	5, 637	10, 450	13, 826	2, 008	West Indian (except Cuban).....	192	202	290	495
					Other peoples.....	262	222	166	23

Source: Commissioner General of Immigration, Department of Labor.

**No. 110.—ALIENS ADMITTED: BY CLASSES UNDER IMMIGRATION ACT OF 1924  
AND BY REGION OF BIRTH, YEARS ENDED JUNE 30**

Class	All countries		Europe		Asia		Canada and Newfoundland	
	1927	1928	1927	1928	1927	1928	1927	1928
<b>All classes, total</b> .....	538,001	500,631	318,328	312,803	20,029	20,174	85,443	69,890
<b>Nonimmigrants, total</b> .....	95,704	99,632	53,969	55,877	10,342	9,806	9,441	10,115
Government officials, their families, attendants, etc.....	5,683	6,348	2,274	2,563	767	904	93	74
Temporary visitors.....	60,508	64,581	37,686	40,098	2,731	2,878	5,496	5,416
In transit through United States.....	28,312	27,257	13,645	12,678	6,080	5,150	3,850	4,618
To carry on trade under existing treaty.....	1,201	1,446	364	538	814	874	2	7
<b>Nonquota immigrants, total</b> .....	284,227	247,768	107,254	106,131	8,691	9,215	76,002	69,775
Wives and children of United States citizens <sup>1</sup> .....	18,505	25,761	17,354	24,320	1,027	1,261	-----	2
Returning residents.....	95,910	94,502	79,997	78,705	6,720	7,227	2,237	2,572
Natives of nonquota countries and their wives and children.....	159,735	124,122	1,084	727	20	17	73,728	57,163
Professors and ministers and their wives and children.....	1,853	1,404	1,579	1,134	210	190	8	19
Students.....	1,833	1,816	1,057	1,086	599	520	3	15
Veterans of the World War and their wives and children.....	6,381	104	6,223	104	115	-----	26	-----
Spanish subjects admitted into Porto Rico.....	10	55	10	55	-----	-----	-----	-----
American Indians born in Canada.....	-----	4	-----	-----	-----	-----	-----	4
<b>Quota immigrants, total</b> .....	158,070	153,231	155,605	150,795	998	1,153	-----	-----
	Mexico		West Indies		Central and South America <sup>2</sup>		Other countries	
	1927	1928	1927	1928	1927	1928	1927	1928
<b>All classes, total</b> .....	81,722	62,649	18,671	17,396	11,190	11,569	6,118	6,160
<b>Nonimmigrants, total</b> .....	2,774	3,500	9,289	10,026	5,021	5,418	4,868	4,890
Government officials, their families, attendants, etc.....	234	261	1,027	1,012	1,086	1,356	202	173
Temporary visitors.....	1,780	2,349	6,555	7,033	3,166	3,377	3,094	3,430
In transit through United States.....	760	890	1,701	1,975	768	678	1,558	1,268
To carry on trade under existing treaty.....	-----	-----	6	6	1	7	14	14
<b>Nonquota immigrants, total</b> .....	78,948	59,149	8,879	6,809	6,050	6,041	803	648
Wives and children of United States citizens <sup>1</sup> .....	-----	-----	53	98	7	17	64	63
Returning residents.....	1,786	693	3,917	3,886	867	991	386	428
Natives of nonquota countries and their wives and children.....	77,155	58,453	2,635	2,745	5,147	5,011	16	6
Professors and ministers and their wives and children.....	1	1	8	13	5	3	42	44
Students.....	5	2	59	67	20	19	90	107
Veterans of the World War and their wives and children.....	1	-----	7	-----	4	-----	5	-----
American Indians born in Canada.....	-----	-----	-----	-----	-----	-----	-----	-----
<b>Quota immigrants, total</b> .....	-----	-----	703	561	119	100	647	622

<sup>1</sup> In 1928 includes husbands of United States citizens

<sup>2</sup> Includes Greenland, Miquelon, and St. Pierre

Source Commissioner General of Immigration, Department of Labor.

# No. 111.—IMMIGRATION QUOTAS AND ALIENS ADMITTED AND CHARGED TO QUOTAS: BY NATIONALITY, YEARS ENDED JUNE 30

NOTE.—Both immigrant and nonimmigrant aliens may appear in quota law statistics, or aliens of both classes may not be counted against quotas at all, as shown by Table 110. Changes in quotas between 1923 and 1924 were necessitated by changes in boundaries and other adjustments. For national origin of the white population of United States and immigration quotas based thereon as provided in the immigration act of 1924, effective July 1, 1929, see Tables 116 and 117

Country or region	Under immigration act of 1921				Under immigration act of 1924				
	1923		1924		Quota <sup>1</sup>	Number admitted			
	Quota	Number admitted	Quota	Number admitted		1925	1926	1927	1928
Total.....	357, 803	335, 480	357, 803	357, 642	164, 667	145, 971	157, 432	158, 070	153, 231
Albania.....	288	288	288	288	100	67	98	99	100
Armenia (Russian).....	230	230	230	230	124	47	68	123	98
Austria.....	7, 451	7, 358	7, 342	7, 342	785	761	763	815	786
Belgium.....	1, 563	1, 563	1, 563	1, 563	512	505	507	516	514
Bulgaria.....	302	295	302	302	100	89	98	102	100
Czechoslovakia.....	14, 357	14, 357	14, 357	14, 357	3, 073	2, 556	3, 159	3, 168	2, 948
Danzig, Free City of.....	301	263	301	301	228	212	223	241	211
Denmark.....	5, 619	5, 226	5, 619	5, 619	2, 789	2, 523	2, 712	2, 621	2, 558
Estonia.....	1, 348	241	1, 348	1, 224	124	113	116	126	122
Finland.....	3, 921	3, 921	3, 921	3, 921	471	466	468	456	485
Fiume, Free State of.....	71	67	71	66					
France.....	5, 729	5, 034	5, 729	5, 729	3, 954	3, 481	3, 838	3, 942	3, 683
Germany.....	67, 607	49, 258	67, 607	67, 607	51, 227	45, 760	51, 036	49, 792	47, 883
Great Britain, Ireland <sup>2</sup> .....	77, 342	77, 342	77, 342	77, 342	34, 007	30, 461	31, 182	31, 090	32, 053
Greece.....	3, 294	3, 294	3, 063	3, 063	100	95	96	96	103
Hungary (including Sopron District).....	5, 638	5, 638	5, 747	5, 747	473	357	471	465	468
Iceland.....	75	59	75	43	100	64	61	73	50
Irish Free State.....					28, 567	27, 112	27, 690	29, 997	27, 093
Italy.....	42, 057	42, 057	42, 057	42, 057	3, 845	2, 662	3, 808	3, 826	3, 926
Latvia.....	1, 540	1, 513	1, 540	1, 540	142	127	137	136	148
Lithuania (including Memel and a part of Pinsk region).....	2, 460	2, 460	2, 629	2, 629	344	332	341	341	347
Luxemburg.....	92	92	92	92	100	98	95	99	93
Netherlands.....	3, 607	3, 607	3, 607	3, 607	1, 648	1, 500	1, 640	1, 566	1, 588
Norway.....	12, 202	12, 202	12, 202	12, 202	6, 453	6, 118	6, 291	6, 123	5, 944
Poland (including Eastern Galicia and part of Pinsk region).....	31, 146	29, 730	30, 977	30, 977	5, 982	4, 873	6, 386	5, 972	6, 129
Portugal (including Azores and Madeira Islands).....	2, 465	2, 465	2, 465	2, 465	503	474	493	459	498
Rumania.....	7, 419	7, 419	7, 419	7, 419	603	595	601	597	608
Russia, European and Asiatic (excluding barred zone).....	24, 405	24, 405	24, 405	24, 405	2, 248	2, 141	2, 158	2, 147	2, 231
Spain (including Canary Islands).....	912	912	912	912	131	127	126	128	134
Sweden.....	20, 042	19, 867	20, 042	20, 042	9, 561	8, 961	9, 233	8, 966	8, 605
Switzerland.....	3, 752	3, 752	3, 752	3, 752	2, 081	1, 869	1, 910	1, 993	1, 874
Yugoslavia.....	6, 426	6, 426	6, 426	6, 426	671	489	589	654	665
Palestine.....	57	57	57	57	100	61	93	99	109
Syria.....	928	928	882	882	100	83	94	96	100
Turkey (European and Asiatic).....	2, 388	2, 388	2, 654	2, 654	100	96	86	97	100
Africa (other than Egypt).....	122	122	104	104	1, 100	110	111	149	145
Egypt.....			18	18	100	77	98	99	101
Australia.....	279	279	279	279	121	118	103	131	121
New Zealand and Pacific Islands.....	80	80	80	80	100	98	99	98	101
All others.....	285	285	299	299	1, 900	293	457	572	423

<sup>1</sup> Quota for 1925, 1926, 1927, and 1928

<sup>2</sup> Prior to 1925 figures include all Ireland, in 1925, 1926, 1927, and 1928, Northern Ireland only.

<sup>3</sup> Figures for previous years included with Great Britain, Ireland.

Source: Annual Reports of the Commissioner General of Immigration, Department of Labor.

**No. 112.—QUOTA AND NONQUOTA IMMIGRANTS ADMITTED: BY COUNTRY OR REGION OF BIRTH, YEAR ENDED JUNE 30, 1928**

NOTE—See headnote Table 111

Country	Quota immigrants	Nonquota immigrants			Country	Quota immigrants	Nonquota immigrants		
		From non-quota countries	Returning residents	Other exempt classes			From non-quota countries	Returning residents	Other exempt classes
All countries.....	153, 231	124, 122	94, 502	28, 144	Europe—Contd.				
Europe, total.....	150, 795	1 727	78, 705	26, 699	Sweden.....	8, 605	10	3, 276	96
Albania.....	108		401	187	Switzerland.....	1, 874	2	1, 263	95
Austria.....	849	5	900	208	Turkey in Europe.....	83		118	457
Belgium.....	558	6	746	101	Yugoslavia.....	665		1, 453	878
Bulgaria.....	88		81	75	Other Europe.....	1, 004	2	309	143
Czechoslovakia.....	2, 939	1	2, 343	1, 231	America, total.....	661	123, 372	8, 142	260
Denmark.....	2, 557	2	1, 207	86	Canada and Newfoundland.....		57, 163	2, 572	40
Finland.....	485	2	1, 193	60	Mexico.....		58, 453	693	3
France.....	3, 548	26	3, 021	209	West Indies.....	561	2, 745	3, 886	178
Germany.....	47, 576	19	10, 295	383	Central and South America.....	88	5, 010	973	38
England.....	12, 102	227	8, 343	626	Other America.....	12	1	18	1
Northern Ireland.....	1, 998	8	293	47	Asia, total.....	1, 153	1 17	7, 227	1, 971
Scotland.....	14, 022	61	5, 461	202	China.....	148	5	1, 888	266
Wales.....	1, 747	4	434	52	India.....	103		88	76
Greece.....	194		1, 947	1, 686	Japan.....	17	2	4, 791	233
Hungary.....	507	1	942	446	Palestine.....	186	3	65	117
Irish Free State.....	27, 093	22	4, 008	127	Syria.....	131	3	161	310
Italy.....	4, 020	237	18, 594	12, 865	Turkey in Asia.....	71	1	157	811
Lithuania.....	386	2	284	245	Other Asia.....	497	3	77	158
Netherlands.....	1, 543	1	921	75	Africa.....	341	1 3	110	78
Norway.....	5, 944	12	2, 272	158	Australia.....	207	1 3	294	120
Poland.....	6, 129	9	2, 379	3, 999	Other countries.....	14		24	16
Portugal.....	498	14	2, 150	80					
Rumania.....	846	3	817	608					
Russia.....	2, 060	8	566	1, 012					
Spain.....	167	25	2, 698	267					

<sup>1</sup> Wives and children (born in quota countries) of natives of nonquota countries.

<sup>2</sup> Including Azores, Cape Verde, and Madeira Islands.

**No. 113.—ARRIVALS AND DEPARTURES OF ALIENS AND CITIZENS**

Class	1910-1914, average	1915-1919, average	1920-1924, average	1925-1928, average	1927	1928
<b>Aliens and citizens</b>						
Arrivals.....	1, 488, 422	454, 192	963, 630	878, 161	916, 521	931, 586
Departures.....	904, 423	416, 948	588, 089	619, 319	623, 296	703, 931
Excess of arrivals.....	583, 999	37, 244	375, 541	258, 842	293, 225	227, 655
<b>Aliens, total:</b>						
Arrivals.....	1, 215, 160	322, 549	716, 990	498, 293	538, 001	500, 631
Departures.....	551, 931	236, 172	323, 362	245, 277	253, 508	274, 356
Excess of arrivals.....	663, 229	86, 377	393, 628	253, 016	284, 493	226, 275
<b>Aliens, immigrant or emigrant:</b>						
Arrivals.....	1, 094, 940	234, 536	554, 920	310, 308	335, 175	307, 255
Departures.....	288, 578	123, 645	178, 597	80, 136	73, 366	77, 457
Excess of arrivals.....	746, 362	110, 891	376, 323	230, 172	261, 809	229, 798
<b>Aliens, nonimmigrant or nonemigrant:</b>						
Arrivals.....	180, 220	88, 013	162, 070	187, 985	202, 826	193, 376
Departures.....	263, 352	112, 527	144, 765	165, 142	180, 142	196, 899
Excess of arrivals (+) or departure (-).....	-83, 132	-24, 514	+17, 305	+22, 843	+22, 684	-3, 523
<b>Citizens:</b>						
Arrivals.....	273, 262	131, 643	246, 640	379, 868	378, 520	430, 955
Departures.....	352, 492	180, 776	264, 727	374, 042	369, 788	429, 575
Excess of arrivals (+) or departures (-).....	-79, 230	-49, 133	-18, 087	+5, 826	+8, 732	+1, 380
<b>Citizens permanently departed:</b>						
Naturalized.....		1 4, 097	7, 097	4, 058	3, 239	3, 257
Native-born.....		1 44, 174	49, 117	20, 400	19, 547	18, 175

<sup>1</sup> Average for 1918 and 1919

Source of Tables 112 and 113 Commissioner General of Immigration, Department of Labor.

### No. 114.—ARRIVALS OF PASSENGERS AT THE PRINCIPAL PORTS FROM FOREIGN COUNTRIES: YEARS ENDED JUNE 30

NOTE.—Figures for immigrants and nonimmigrant aliens cover admissions only. In addition, there are debarrd aliens among the arrivals who, after being examined, are found inadmissible and returned to the countries whence they came

Port and class	1900-1909, average	1910-1914, average	1915- 1919, average	1920- 1924, average	1925	1926	1927	1928
<b>United States, total</b> .....	1,080,019	1,488,422	454,192	963,630	797,674	866,863	916,521	931,586
United States citizens.....	166,236	273,262	131,643	246,640	339,239	370,757	378,520	430,955
Immigrants.....	820,239	1,034,940	234,536	554,920	294,314	304,488	335,175	307,255
Nonimmigrant aliens.....	73,544	180,220	88,013	162,070	164,121	191,618	202,826	193,376
<b>New York</b> .....	812,848	1,048,710	193,358	571,942	458,182	531,700	568,819	590,376
United States citizens.....	128,978	173,578	55,192	161,265	219,861	263,170	269,026	299,272
Immigrants.....	630,141	759,791	100,970	321,403	137,492	149,289	165,510	157,887
Nonimmigrant aliens.....	53,719	115,341	37,194	89,274	100,829	119,241	132,283	133,217
<b>Boston</b> .....	64,942	73,896	13,034	30,329	17,980	18,942	19,555	22,361
United States citizens.....	12,351	11,498	2,723	4,486	6,098	7,577	7,251	10,986
Immigrants.....	47,913	52,474	8,801	24,168	9,023	8,025	8,080	5,680
Nonimmigrant aliens.....	4,678	9,925	1,510	1,675	2,839	3,340	4,224	5,695
<b>Philadelphia</b> .....	24,183	54,823	2,385	10,627	1,673	606	643	580
United States citizens.....	3,510	3,506	462	1,355	942	229	370	262
Immigrants.....	20,203	48,847	1,667	8,597	409	66	100	96
Nonimmigrant aliens.....	470	2,770	256	675	322	311	173	222
<b>Baltimore</b> .....	44,707	31,283	914	511	153	274	154	168
United States citizens.....	1,277	1,126	76	132	61	215	69	69
Immigrants.....	42,994	29,595	780	317	68	36	45	52
Nonimmigrant aliens.....	436	762	58	62	24	23	40	45
<b>New Orleans</b> .....	18,492	11,674	11,199	11,052	11,665	13,269	13,202	13,742
United States citizens.....	13,925	7,837	6,808	6,474	7,948	9,533	9,278	9,829
Immigrants.....	13,288	1,791	1,931	1,407	727	744	903	1,045
Nonimmigrant aliens.....	1,120	2,046	2,460	3,171	2,990	2,992	3,021	2,868
<b>San Francisco</b> .....	10,739	14,053	19,587	24,738	13,477	14,864	18,116	17,000
United States citizens.....	3,609	5,389	5,460	6,976	5,589	5,825	8,065	6,943
Immigrants.....	5,115	4,776	8,442	7,659	1,927	2,114	2,512	2,312
Nonimmigrant aliens.....	2,005	3,887	5,665	10,103	5,961	6,895	7,539	7,745
<b>Seattle</b> .....	14,537	4,627	6,911	8,733	5,379	5,548	6,748	5,266
United States citizens.....	1,667	794	614	1,739	1,926	1,996	3,154	2,306
Immigrants.....	13,136	2,208	3,938	4,046	1,233	1,444	1,011	522
Nonimmigrant aliens.....	1,734	1,625	2,359	2,948	2,220	2,108	2,583	2,458

<sup>1</sup> Average, 1906 to 1909

Source Annual Reports of the Commissioner General of Immigration, Department of Labor.

### No. 115.—DEPARTURES OF PASSENGERS FROM THE UNITED STATES FOR FOREIGN COUNTRIES: YEARS ENDED JUNE 30

	1900- 1909, average	1910- 1914, average	1915- 1919, average	1920- 1924, average	1924	1925	1926	1927	1928
<b>Total</b> .....	437,425	904,423	416,948	588,088	494,595	549,813	600,235	623,296	703,931
Male.....	324,402	631,827	319,331	384,871	304,290	338,670	349,956	361,966	406,485
Female.....	163,023	272,595	97,617	203,217	190,305	211,143	250,279	261,330	297,446
<b>Children</b> <sup>1</sup> .....	52,455	99,348	39,053	75,863	51,190	51,547	56,470	59,723	55,237
<b>Adults</b> <sup>1</sup> .....	434,970	805,074	377,895	512,225	443,405	498,266	543,765	563,573	648,694
<b>Cabin</b> <sup>2</sup> .....	193,822	457,514	209,593	323,302	346,392	364,771	399,033	410,125	455,214
<b>Steerage</b> <sup>3</sup> .....	293,603	446,909	207,355	264,786	148,203	185,042	201,202	213,171	248,717

<sup>1</sup> Prior to 1910 the division point is 12 years, from 1910 to 1917, inclusive, 14 years, thereafter, 16.

<sup>2</sup> Figures include departures by rail via the Canadian and Mexican borders.

<sup>3</sup> Prior to 1910 designated as "Other than cabin passengers"

Source: Prior to July 1, 1907, the Bureau of Statistics; subsequently, the Bureau of Immigration, Department of Labor



### No. 116.—NATIONAL ORIGIN OF THE WHITE POPULATION OF THE UNITED STATES: 1920

NOTE.—The table gives the national origin of the white population of the United States as determined as a basis for immigration quotas under the provisions of the Immigration Act of 1924. The percentage of the total white population derived from each country of origin is expressed in terms of the equivalent number of inhabitants. "Colonial Stock" is used to designate that portion of the white population which is descended from the population enumerated in the first census, taken in 1790; "post colonial stock," that which is descended from or consists of immigrants coming to the United States after 1790. Non-quota countries include Canada, Newfoundland, Mexico, Cuba, Haiti, the Dominican Republic, and the 16 independent Republics of Central and South America.

Country of origin	Number (in thousands)						Per cent distribution		
	Total	Colo- nial stock	Post-colonial stock				Total	Colo- nial stock	Post- colonial stock
			Total	Imm- grants	Child- ren of imm- grants	Grand- children and lat- er gen- erations			
Total.....	94, 821	41, 289	53, 532	13, 718	19, 190	20, 629	100 0	100 0	100.0
Quota countries.....	89, 507	40, 324	49, 182	12, 071	17, 621	19, 490	94.4	97.7	91.9
Austria.....	843	14	829	306	415	108	9	(1)	1.5
Belgium.....	778	602	176	63	62	51	8	1.5	.3
Czechoslovakia.....	1, 715	55	1, 660	560	904	197	1.8	.1	3.1
Denmark.....	705	93	612	190	277	144	.7	.2	1.1
Estonia.....	69	—	69	34	28	7	1	—	.1
Finland.....	339	4	335	150	117	39	4	(1)	.6
France.....	1, 842	767	1, 075	155	325	594	1.9	1.9	2.0
Germany.....	15, 489	3, 037	12, 452	1, 672	4, 051	6, 728	16.3	7.4	23.3
Great Britain and North- ern Ireland.....	39, 216	31, 804	7, 412	1, 365	2, 308	3, 739	41.4	77.0	13.8
Greece.....	183	—	183	135	47	1	2	—	.3
Hungary.....	519	—	519	319	184	16	.5	—	1.0
Irish Free State.....	10, 653	1, 822	8, 832	821	2, 098	5, 913	11.2	4.4	16.5
Italy.....	3, 462	—	3, 462	1, 612	1, 671	178	3.7	—	6.5
Latvia.....	111	—	141	69	56	16	.1	—	.3
Lithuania.....	230	—	230	117	89	25	.2	—	.4
Netherlands.....	1, 881	1, 367	515	133	205	176	2.0	3.3	1.0
Norway.....	1, 419	75	1, 343	364	597	382	1.5	.2	2.5
Poland.....	3, 893	9	3, 884	1, 814	1, 780	290	4.1	(1)	7.3
Portugal.....	263	24	239	104	105	30	.3	.1	.4
Rumania.....	176	—	176	89	84	3	.2	—	.3
Russia (Europe and Asia).....	1, 661	4	1, 657	767	762	127	1.8	(1)	3.1
Spain.....	150	38	112	50	25	37	.2	.1	.2
Sweden.....	1, 977	217	1, 760	626	775	360	2.1	.5	3.3
Switzerland.....	1, 019	389	630	119	204	308	1.1	.9	1.2
Syria and Lebanon.....	73	—	73	42	31	—	.1	—	.1
Turkey.....	135	—	135	103	31	1	.1	—	.3
Yugoslavia.....	504	—	504	221	266	18	.5	—	.9
All other quota countries.....	171	4	167	72	94	2	.2	(1)	.3
Nonquota countries.....	5, 314	964	4, 350	1, 641	1, 570	1, 139	5.6	2.3	8.1

<sup>1</sup> Less than one-tenth of 1 per cent

### No. 117.—IMMIGRATION QUOTAS ON BASIS OF NATIONAL ORIGIN

Country or area	Quota	Country or area	Quota	Country or area	Quota	Country or area	Quota
Total.....	153, 714	Egypt.....	100	Luxemburg.....	100	Siam.....	100
Afghanistan.....	100	Estonia.....	116	Monaco.....	100	South Africa.....	100
Albania.....	100	Ethiopia (Abyssinia).....	100	Morocco.....	100	Union of.....	100
Andorra.....	100	Finland.....	-569	Muscat (Oman).....	100	Southwest Af- rica.....	100
Arabian peninsula.....	100	France.....	3, 086	Nauru.....	100	Spain.....	252
Armenia.....	100	Germany.....	25, 957	Nepal.....	100	Sweden.....	3, 314
Australia.....	100	Great Britain and Northern Ireland.....	65, 721	Netherlands.....	3, 153	Switzerland.....	1, 707
Austria.....	1, 413	Greece.....	307	New Zealand.....	100	Syria and the Lebanon.....	123
Belgium.....	1, 304	Hungary.....	869	Norway.....	2, 377	Tanganyika.....	100
Bhutan.....	100	Iceland.....	100	New Guinea.....	100	Togoland (Brit mandate).....	100
Bulgaria.....	100	India.....	100	Palestine (with Trans-Jordan).....	100	Togoland (Fr. mandate).....	160
Cameroon (Brit mandate).....	100	Iran.....	100	Persia.....	100	Turkey.....	226
Cameroon (Fr. mandate).....	100	Iraq.....	100	Poland.....	6, 524	Turkey.....	100
China.....	100	Irish Free State.....	17, 853	Portugal.....	440	Pacific islands under Japa- nese mandate.....	100
Czechoslovakia.....	2, 874	Italy.....	5, 802	Ruanda and Urundi.....	100	Yugoslavia.....	845
Danzig, Free City of.....	100	Japan.....	236	Rumania.....	295		
Denmark.....	1, 181	Latvia.....	100	Russia (Europe and Asia).....	2, 784		
		Liechtenstein.....	100	Samoa, Western.....	100		
		Lithuania.....	386	San Marino.....	100		

Source of Tables 116 and 117: Bureau of the Census, Department of Commerce.

## 5. EDUCATION

NOTE.—Population figures for 1922, 1924, and 1925 used in this section are unrevised estimates and therefore do not agree with revised figures shown in Table 6, p. 3. The differences affect only slightly the ratios based on population. For educational activities of the United States Veterans' Bureau, see p. 162.

### No. 118.—SUMMARY OF PUBLIC ELEMENTARY AND SECONDARY SCHOOLS: CONTINENTAL UNITED STATES

	1870	1880	1890	1900	1910
Total population.....	<sup>1</sup> 38,558,371	<sup>1</sup> 50,155,783	<sup>1</sup> 62,947,714	<sup>1</sup> 75,994,575	<sup>1</sup> 91,972,266
Population 5-17 years, inclusive.....	<sup>1</sup> 12,055,443	<sup>1</sup> 15,065,767	<sup>1</sup> 18,543,201	<sup>1</sup> 21,538,024	<sup>1</sup> 24,239,948
Per cent of total population.....	31.3	30.1	29.6	28.3	26.4
Pupils enrolled in public schools.....	6,871,522	9,867,505	12,722,581	15,503,110	17,813,852
Per cent of total population.....	17.82	19.67	20.32	20.40	19.37
Per cent of population 5-17, inclusive.....	57.00	65.50	68.61	<sup>3</sup> 71.98	<sup>3</sup> 73.49
Average daily attendance.....	4,077,347	6,114,143	8,153,635	10,632,772	12,827,307
Per cent of number of pupils enrolled.....	59.3	62.3	64.1	68.6	72.1
Average number of days schools in session.....	132.2	130.3	134.7	144.3	157.5
Average number of days attended per enrolled pupil.....	78.4	81.1	86.3	99.0	113.0
Number of teachers.....	200,515	286,593	363,922	423,062	523,210
Male.....	77,529	122,795	125,525	126,588	110,481
Female.....	122,986	163,798	238,397	296,474	412,729
Per cent male teachers.....	38.7	42.8	34.5	29.9	21.1
Salaries: Teachers, supervisors, and principals (thousands of dollars).....	37,795	55,886	91,708	137,495	253,757
Average annual salary per teacher.....	<sup>4</sup> \$189	<sup>4</sup> \$195	<sup>4</sup> \$252	<sup>4</sup> \$255	<sup>4</sup> \$485
Total expenditure for education (thousands of dollars).....	63,397	78,095	140,507	214,965	426,250
Per capita of total population.....	\$1.64	\$1.56	\$2.24	\$2.84	\$4.64
Per capita of population 5-17, inclusive.....	\$5.26	\$5.16	\$7.63	<sup>3</sup> \$9.98	<sup>3</sup> \$17.51
Per capita of enrollment.....	\$9.23	\$7.91	\$11.04	\$13.87	\$23.93

  

	1920	1922	1924	1925	1926
Total population.....	<sup>1</sup> 105,710,620	<sup>2</sup> 109,248,393	<sup>2</sup> 112,078,611	<sup>2</sup> 113,493,720	<sup>2</sup> 117,135,000
Population 5-17 years, inclusive.....	<sup>1</sup> 27,728,788	<sup>2</sup> 28,627,201	<sup>2</sup> 29,345,911	<sup>2</sup> 29,705,264	<sup>2</sup> 30,064,621
Per cent of total population.....	26.2	26.1	26.2	26.2	25.6
Pupils enrolled in public schools.....	21,578,316	23,239,227	24,288,808	24,650,291	24,741,468
Per cent of total population.....	20.4	21.3	21.7	21.7	21.1
Per cent of population 5-17, inclusive.....	77.8	81.2	82.8	83.0	82.3
Average daily attendance.....	16,150,035	18,432,213	19,132,451	19,838,384	19,855,881
Per cent of number of pupils enrolled.....	74.8	79.3	78.8	80.5	80.3
Average number of days schools in session.....	161.9	164.0	168.3	169.6	169.3
Average number of days attended per enrolled pupil.....	121.2	130.6	132.5	136.5	135.9
Number of teachers.....	679,533	722,976	761,308	777,945	814,169
Male.....	95,666	118,085	128,731	131,164	138,810
Female.....	583,867	604,891	632,577	646,781	675,359
Per cent male teachers.....	14.1	16.3	16.9	16.9	17.0
Salaries: Teachers, supervisors, and principals (thousands of dollars).....	590,120	860,953	949,877	1,006,409	1,061,583
Average annual salary per teacher.....	<sup>5</sup> \$871	<sup>5</sup> \$1,166	<sup>5</sup> \$1,227	<sup>5</sup> \$1,252	<sup>5</sup> \$1,277
Total expenditure for education (thousands of dollars).....	1,036,151	1,580,671	1,820,744	1,946,097	2,026,308
Per capita of total population.....	\$9.80	\$14.47	\$16.25	\$17.15	\$17.30
Per capita of population 5-17, inclusive.....	\$37.37	\$55.22	\$62.04	\$65.51	\$67.40
Per capita of enrollment.....	\$48.02	\$68.02	\$74.96	\$78.95	\$81.90

<sup>1</sup> Census enumeration as of June 1, 1870, to 1900, Apr. 15, 1910, and Jan. 1, 1920.

<sup>2</sup> Census estimates for July 1.

<sup>3</sup> Figures do not agree with those in Tables 122 and 124, as the latter are based on estimated population 5 to 17 years of age.

<sup>4</sup> Computed from number of teaching positions.

<sup>5</sup> Computed from number of teaching positions plus supervisors and principals whose salaries are included.

Source: Bureau of Education, Department of the Interior.

**No. 119.—ELEMENTARY, COMMERCIAL, SECONDARY, NORMAL SCHOOL,  
AND COLLEGE ENROLLMENTS: CONTINENTAL UNITED STATES**

Schools	1890	1900	1910	1920	1926
Elementary and kindergarten, total.....	14,181,415	16,224,784	18,457,228	20,864,488	23,127,102
Kindergartens (public and private).....	<sup>1</sup> 31,227	225,394	<sup>2,3</sup> 185,471	510,949	727,687
Public elementary schools (including public kindergartens).....	12,519,518	14,983,859	16,898,791	19,378,927	20,984,002
Private elementary schools (largely estimated).....	1,661,897	1,240,925	1,558,437	1,485,561	2,143,100
Secondary students, total.....	357,813	695,903	1,111,393	2,494,678	4,132,125
Public high schools.....	202,963	519,251	915,061	<sup>4</sup> 2,199,389	<sup>4</sup> 3,757,466
Private high schools.....	94,981	110,797	117,400	<sup>4</sup> 213,920	<sup>5</sup> 295,625
Preparatory schools (in colleges and universities).....	51,749	56,285	66,042	59,309	55,632
Secondary students in normal schools.....	8,170	9,570	12,890	22,058	23,402
College and normal students, total.....	156,756	237,550	355,215	597,457	1,037,469
Normal schools and teachers colleges (excluding secondary students).....	34,814	69,551	88,561	135,012	270,206
Colleges, universities, and professional schools (excl. preparatory students).....	121,942	167,999	266,654	462,445	767,263
Private commercial and business schools....	78,920	91,549	155,244	335,161	<sup>6</sup> 188,368

<sup>1</sup> 1888<sup>2</sup> 1909.<sup>3</sup> See headnote, Table 127.<sup>2</sup> Public only.<sup>4</sup> From State reports.<sup>5</sup> 1925

Source. Bureau of Education, Department of the Interior

**No. 120.—PUBLIC HIGH SCHOOLS AND PRIVATE HIGH SCHOOLS AND ACAD-  
EMIES: CONTINENTAL UNITED STATES**

NOTE.—Data for public high schools are from reports received from the schools, 17,710 public high schools out of a total of 21,700 on record having furnished complete reports in 1926. The total enrollment in all high schools as reported by the State departments of education are shown for 1920 and 1926 in Table 119

	1890	1900	1910	1920	1924	1926
<b>ALL HIGH SCHOOLS AND ACADEMIES</b>						
Schools reporting.....	4,158	7,983	19,994	16,419	16,951	20,060
Total pupils.....	297,894	630,048	1,032,461	2,041,308	2,754,903	3,313,085
Per cent of total population.....	0.47	0.83	1.12	1.93	2.45	2.88
Number of persons 14 to 17 years of age in total population.....	5,354,653	6,152,405	7,220,298	7,735,841	7,942,053	8,045,161
Ratio of number of pupils to total number of age specified, per cent.....	5.56	10.24	15.67	26.38	34.68	41.18
<b>PUBLIC HIGH SCHOOLS</b>						
Schools reporting.....	2,526	6,005	10,213	14,326	14,827	17,710
Teachers, total.....	19,120	20,372	41,667	<sup>2</sup> 97,654	<sup>2</sup> 133,395	<sup>2</sup> 163,555
Men.....	3,597	10,172	18,890	34,396	48,359	58,496
Women.....	5,280	10,200	22,777	63,258	85,036	105,059
Pupils, total <sup>3</sup> .....	202,963	519,251	915,061	1,857,155	2,538,381	3,065,009
Boys.....	85,451	216,207	398,525	822,967	1,183,067	1,445,886
Girls.....	116,351	303,044	516,536	1,034,188	1,355,314	1,619,123
Colored students (included above).....	8,958	8,396	12,636	27,631	51,745	75,713
First year.....	(4)	(4)	392,505	742,320	934,192	1,108,158
Second year.....	(4)	(4)	247,936	498,796	692,568	823,191
Third year.....	(4)	(4)	169,176	346,684	506,286	611,986
Fourth year.....	(4)	(4)	111,444	261,369	390,853	504,355
Postgraduate.....	(4)	(4)	-----	7,986	8,492	17,319
Per cent of total population in public high schools.....	0.32	0.68	1.00	1.76	2.26	2.66
Number graduated during year, total.....	21,882	61,737	111,383	230,902	362,236	434,539
Boys.....	7,692	22,575	43,657	90,516	155,698	190,054
Girls.....	14,190	39,162	67,706	140,386	206,538	244,485

<sup>1</sup> Includes teachers not classified by sex.<sup>2</sup> Includes teachers in junior high schools as follows. 1920, men, 1,361, women, 5,069; 1924, men, 3,299, women, 11,697; 1926, men, 5,238, women, 18,444<sup>3</sup> Excluding 7th and 8th grades in junior high schools.<sup>4</sup> No data.

**No. 120.—PUBLIC HIGH SCHOOLS AND PRIVATE HIGH SCHOOLS AND ACADEMIES: CONTINENTAL UNITED STATES—Continued**

	1890	1900	1910	1920	1924	1926
<b>PRIVATE HIGH SCHOOLS AND ACADEMIES</b>						
Schools reporting.....	1,632	1,978	1,781	2,093	2,124	2,350
Teachers, total.....	7,209	10,117	11,146	14,846	15,703	18,025
Men.....	3,272	4,275	4,512	5,698	6,192	6,929
Women.....	3,937	5,842	6,634	9,248	9,511	11,096
Secondary students, total.....	94,931	110,797	117,400	184,153	216,522	248,078
Boys.....	47,534	55,734	55,474	84,222	100,116	114,617
Girls.....	47,397	55,063	61,926	99,931	116,406	133,459
Colored (included above).....		2,390	5,888	8,826	10,891	10,261
Total in schools for boys only.....			26,838	47,925	56,809	63,050
Total in schools for girls only.....			28,317	55,658	64,819	76,323
Total in coeducational schools.....			62,245	80,570	94,894	108,708

**No. 121.—NORMAL SCHOOLS AND TEACHERS' COLLEGES (STATE, COUNTY, CITY, AND PRIVATE): CONTINENTAL UNITED STATES**

	1900	1910	1920	1924	1926	1928
<b>ALL NORMAL SCHOOLS AND TEACHERS' COLLEGES</b>						
Number reporting.....	305	264	370	382	402	339
Instructors, total.....	4,367	5,914	9,533	12,517	14,231	14,462
Men.....	1,856	2,195	3,556	4,949	5,774	5,831
Women.....	2,511	3,719	5,977	7,568	8,457	8,631
Students in all courses, total.....	<sup>1</sup> 116,549	<sup>1</sup> 132,438	162,373	273,107	294,064	297,430
Men.....	47,851	37,823	29,107	53,351	63,993	61,573
Women.....	68,698	94,615	133,266	219,756	230,071	235,857
Students in normal courses, total.....	69,551	88,561	135,012	245,649	270,206	274,348
Men.....	24,157	19,746	19,068	42,532	54,221	52,054
Women.....	45,394	68,815	115,944	203,117	215,985	222,294
Graduates from normal courses during year.....	11,359	15,430	20,920	40,484	47,310	49,627
Enrollment in model schools.....	35,397	66,180	91,941	85,585	73,092	71,685
Volumes in libraries.....	807,963	1,521,528	2,380,373	2,926,023	3,225,994	3,536,032
Receipts, all sources (1,000 dollars).....	5,232	14,688	31,275	48,949	64,693	70,017
<b>STATE NORMAL SCHOOLS AND TEACHERS' COLLEGES</b>						
Number.....	127	151	182	196	203	206
Instructors.....	2,199	3,840	7,227	10,153	11,465	12,169
Students in all courses.....	<sup>1</sup> 60,309	<sup>1</sup> 94,143	140,382	239,226	259,693	267,184
Students in normal courses.....	41,655	71,447	118,601	219,906	243,047	249,633
<b>TEACHERS' COLLEGES (INCLUDED ABOVE)</b>						
Number.....			45	88	101	137
Instructors.....			2,569	6,022	7,422	9,658
Students in all courses.....			61,906	151,562	177,816	219,119
Students in normal courses.....			54,721	140,029	167,862	206,799
<b>CITY AND COUNTY NORMAL SCHOOLS</b>						
Number.....	30	40	128	119	135	74
Instructors.....	550	845	1,093	843	1,098	850
Students in all courses.....	7,565	16,940	12,527	15,689	16,067	15,579
Students in normal courses.....	4,592	7,773	12,527	15,689	16,067	15,579
<b>PRIVATE NORMAL SCHOOLS</b>						
Number.....	148	73	60	67	64	59
Instructors.....	1,618	1,229	1,208	1,521	1,668	1,449
Students in all courses.....	48,675	21,855	9,464	18,192	18,304	14,667
Students in normal courses.....	23,304	9,341	3,884	10,054	11,092	9,236

<sup>1</sup> A number of pupils in model schools are included in these data

Source of Tables 120 and 121: Bureau of Education, Department of the Interior.

## No. 122.—ELEMENTARY AND SECONDARY SCHOOLS, PUBLIC

NOTE.—The ratio of pupils enrolled to total population 5-17 years was 82.3 per cent in 1926. Per cent owing largely to the difficulty of accurately

State	Population 5-17 years, inclusive, 1920	Public elementary and secondary schools						
		Pupils enrolled				Ratio of enrolled to total popula- tion 5-17 years, inclusive, per cent		
		1900	1910	1920	1926	1900	1910	1920
Continental United States.....	27,728,788	15,503,110	17,813,852	21,578,316	24,741,468	72.4	73.1	77.8
Alabama.....	769,256	376,423	424,611	569,940	590,405	61.7	62.7	74.1
Arizona.....	86,941	16,504	31,312	76,505	81,036	51.9	62.0	88.0
Arkansas.....	563,659	314,662	395,978	483,172	496,927	71.0	80.0	85.7
California.....	679,119	269,736	368,391	696,393	1,016,473	79.6	78.6	(9)
Colorado.....	231,833	117,555	168,798	220,232	236,872	88.2	89.6	95.0
Connecticut.....	325,519	155,228	190,353	261,463	320,463	74.5	73.8	80.3
Delaware.....	52,535	36,895	35,950	38,483	39,297	75.3	71.5	73.3
District of Columbia.....	77,505	46,519	55,774	65,298	73,495	76.8	83.3	84.3
Florida.....	272,667	108,874	148,089	225,160	342,643	66.6	68.1	82.6
Georgia.....	933,368	482,673	555,794	690,918	689,230	65.3	66.8	74.0
Idaho.....	121,560	36,669	76,168	115,192	117,656	79.2	87.9	94.8
Illinois.....	1,564,806	958,911	1,002,687	1,127,560	1,331,329	72.7	71.7	72.1
Indiana.....	712,772	564,807	531,459	566,288	635,227	81.1	78.4	79.4
Iowa.....	597,914	566,223	510,661	514,521	556,270	89.1	86.9	86.1
Kansas.....	463,037	389,582	398,746	406,880	424,961	89.2	88.7	87.9
Kentucky.....	702,391	500,294	494,863	535,332	575,482	75.3	73.6	76.2
Louisiana.....	557,553	196,169	263,617	354,079	395,007	43.6	50.8	63.5
Maine.....	130,918	130,918	144,278	137,681	148,596	81.4	84.5	76.3
Maryland.....	361,297	222,373	238,393	241,618	263,249	67.0	69.9	66.9
Massachusetts.....	875,109	474,891	535,869	623,586	755,832	76.2	70.6	71.3
Michigan.....	871,856	504,985	541,501	691,674	871,083	77.1	78.0	79.3
Minnesota.....	615,733	399,207	440,083	508,597	549,899	77.6	77.9	81.8
Mississippi.....	591,102	386,507	469,137	612,670	572,986	73.3	80.4	69.8
Missouri.....	859,277	719,817	707,031	672,483	723,167	78.6	81.8	78.3
Montana.....	137,344	39,430	66,141	126,576	116,990	72.8	80.7	92.2
Nebraska.....	344,436	288,227	281,375	311,821	326,934	89.5	86.5	90.5
Nevada.....	15,419	6,676	6,100	14,114	15,614	74.1	73.9	91.5
New Hampshire.....	99,775	65,688	63,972	64,205	71,736	74.0	66.0	64.3
New Jersey.....	767,979	322,675	429,797	594,780	735,146	68.5	70.0	77.4
New Mexico.....	107,990	86,735	56,304	81,399	87,687	61.4	59.2	75.4
New York.....	2,361,888	1,209,574	1,422,969	1,719,841	1,967,447	69.6	67.8	72.8
North Carolina.....	838,845	400,452	520,404	691,249	818,739	63.6	73.5	82.4
North Dakota.....	138,799	77,686	139,802	168,283	172,818	81.3	85.4	84.6
Ohio.....	1,331,685	829,160	838,080	1,020,663	1,255,323	75.4	73.8	76.6
Oklahoma.....	636,340	99,602	422,399	589,282	648,946	79.8	82.9	92.6
Oregon.....	179,601	89,405	118,412	151,028	181,891	82.1	79.2	84.1
Pennsylvania.....	2,251,289	1,151,880	1,282,965	1,610,459	1,849,163	68.9	66.7	71.5
Rhode Island.....	143,011	67,231	80,061	93,501	111,428	66.8	63.1	65.4
South Carolina.....	569,916	281,891	340,415	478,045	483,269	60.7	67.3	83.9
South Dakota.....	177,188	98,822	126,253	146,955	164,551	79.5	77.7	82.9
Tennessee.....	707,933	485,354	521,753	619,852	653,876	75.1	79.5	87.6
Texas.....	1,411,202	659,598	821,631	1,035,648	1,210,127	64.7	67.2	73.4
Utah.....	134,601	73,042	91,611	117,406	141,788	81.0	84.3	87.2
Vermont.....	84,188	65,964	66,615	61,785	64,046	82.2	80.3	73.4
Virginia.....	689,398	370,595	402,109	505,190	551,475	63.2	64.3	73.3
Washington.....	309,294	115,104	215,688	291,053	329,288	87.9	85.3	94.1
West Virginia.....	433,832	232,343	276,458	346,256	382,830	78.6	77.9	79.8
Wisconsin.....	682,524	445,142	464,311	465,243	542,584	72.5	72.4	68.2
Wyoming.....	47,068	14,512	24,584	43,112	50,138	65.7	79.7	91.6
OUTLYING AREAS								
Alaska Territory.....	12,530	-----	-----	3,360	4,353	-----	-----	26.8
Canal Zone.....	4,080	-----	-----	3,486	4,728	-----	-----	85.4
Guam.....	-----	-----	-----	-----	2,913	-----	-----	-----
Hawai Territory.....	-----	-----	-----	41,350	58,860	-----	-----	-----
Philippine Islands.....	-----	-----	-----	935,678	1,108,955	-----	-----	-----
Porto Rico.....	-----	-----	-----	280,458	214,163	-----	-----	-----
Virgin Islands.....	-----	-----	-----	-----	3,118	-----	-----	-----
American Samoa.....	-----	-----	-----	-----	1,800	-----	-----	-----

<sup>1</sup> Includes pupils in local normal and vocational schools of secondary grade. <sup>2</sup> Figures for 1898-99.  
<sup>3</sup> The enrollment in schools was 2.5 per cent larger than the number of persons 5-17 years of age in 1920.  
<sup>4</sup> Approximate. <sup>5</sup> Figures for 1891-92. <sup>6</sup> Estimated. <sup>7</sup> Elementary only.

## AND PRIVATE: ENROLLMENT AND ATTENDANCE

ages by States are not shown for that year, as they do not accurately portray the situation in many cases estimating the population 5-17 by States

Public elementary and secondary schools—Continued							Private and parochial schools			State
Number enrolled, 1926		Average daily attendance	Average days attendance per year per pupil enrolled				Number enrolled			
Kindergarten and elementary	Secondary <sup>1</sup>	1926	1900	1910	1920	1926	1910	1920	1926	
20,984,002	3,757,486	19,855,881	99 1	113 0	121 2	135 9	1,558,437	2,034,642	2,438,725	C. U. S.
538,984	51,421	416,521	<sup>2</sup> 61 9	73 6	79 4	97 0	16,133	20,481	19,845	Alabama
70,745	10,291	61,331	77 1	87 3	98 6	125 3	9,913	3,544	3,415	Arizona
402,175	34,752	349,657	48 1	68 6	85 2	103 0	5,777	4,434	8,586	Arkansas
759,676	256,797	777,738	121 6	142 0	120 2	138 2	32,802	49,714	55,402	California
195,101	41,771	182,374	93 4	99 3	114.4	137.0	4,000	8,795	11,778	Colorado
279,106	41,357	265,807	135 8	143.5	144 1	150 7	42,215	68,226	61,664	Connecticut
33,590	5,707	32,858	<sup>4,5</sup> 109 8	108 3	129 2	154 1	3,750	7,081	6,699	Delaware
60,027	13,468	60,903	135 9	145 0	143 8	149 7	6,000	23,707	10,698	Dist. of Col.
307,603	35,040	250,355	69 7	80 9	98 0	109 7	8,200	8,190	8,320	Florida
623,684	65,546	513,017	69 3	92.5	98 0	107.8	6,000	16,730	7,013	Georgia
95,831	21,825	94,100	63 5	91 3	126 9	138 3	1,500	4,201	3,266	Idaho
1,085,618	235,711	1,104,830	123 4	133 7	144 9	153 4	<sup>7</sup> 167,929	267,777	249,004	Illinois
488,780	146,447	586,503	115 6	116 8	125 8	160 4	<sup>8</sup> 20,751	35,857	57,952	Indiana
444,376	111,894	445,935	<sup>2</sup> 103 0	121 4	137 2	141 1	50,000	38,780	45,013	Iowa
340,330	84,631	357,041	84 8	119.5	124.8	147.0	<sup>7</sup> 9,768	27,899	26,263	Kansas
529,996	45,486	381,779	<sup>4,10</sup> 71 0	79 6	78 7	109 0	21,295	20,819	36,438	Kentucky
349,488	45,519	298,514	89 5	93 9	107.7	112 1	34,000	31,374	49,109	Louisiana
121,534	27,062	131,520	105 2	118 5	142 4	156 0	14,137	18,616	24,496	Maine
229,971	33,278	214,104	<sup>3</sup> 108 8	113.7	130 3	151 2	20,000	30,188	38,348	Maryland
166,869	138,963	657,631	<sup>1</sup> 107 7	154.2	149.6	156 3	96,464	144,624	163,395	Massachusetts
744,253	126,830	703,800	<sup>2,4</sup> 113 6	140 0	129 6	152 3	<sup>7</sup> 61,539	91,177	120,463	Michigan
435,853	84,046	445,150	91 8	118 0	125 5	144 4	21,000	54,974	56,194	Minnesota
529,881	43,105	416,101	58 8	74 6	76 9	102 4	<sup>8</sup> 7,500	9,438	8,431	Mississippi
612,414	110,753	599,622	92 3	107.7	128 6	138 9	40,000	65,582	64,539	Missouri
90,049	20,941	98,615	85 5	115.5	120 7	146 8	6,998	6,476	9,482	Montana
266,828	60,106	267,833	102 7	118 9	122 3	149 9	<sup>8</sup> 9,000	28,073	24,331	Nebraska
12,804	2,810	13,216	108 4	106 0	125 8	146 5	350	548	—	Nevada
59,628	12,157	62,573	<sup>2,4</sup> 99 1	128 6	144 3	151 8	14,331	24,342	26,231	N Hampshire
629,774	105,372	589,835	<sup>2</sup> 119 2	138 9	151 3	149 6	65,000	54,697	124,063	New Jersey
79,529	8,158	67,727	<sup>4</sup> 59 0	66 4	120 5	135 2	5,000	4,777	7,598	New Mexico
1,643,215	324,232	1,689,223	131 8	149 0	148 8	159 4	267,072	275,986	373,416	New York
734,170	84,569	605,755	36 6	64 9	91 8	108 1	<sup>8</sup> 26,200	26,640	9,253	N Carolina
149,565	23,253	143,546	87 3	94 9	127 4	138 5	1,000	8,902	7,707	N Dakota
1,031,644	223,679	1,072,923	122 6	131 6	130 7	146 3	97,832	124,223	163,124	Ohio
565,884	83,062	444,349	61 0	78.8	100 5	102 0	4,000	13,635	7,140	Oklahoma
142,711	39,180	159,314	<sup>1,8</sup> 84 0	121 8	137 5	150 1	6,233	9,249	12,029	Oregon
1,581,767	267,396	1,550,274	123 6	133 0	139 0	151 5	175,000	171,532	293,755	Pennsylvania
96,486	14,642	93,147	<sup>2</sup> 135 4	148 8	142 9	158 8	17,781	26,590	31,455	Rhode Island
435,425	47,844	345,402	63 2	75 4	76 0	102 9	10,650	10,142	3,626	S Carolina
138,166	20,385	138,388	113 4	106 0	112 4	141 9	1,840	5,805	9,290	S Dakota
600,584	53,202	453,229	67 0	90 6	98 5	105 5	37,124	27,300	10,241	Tennessee
1,015,951	194,176	1,031,772	73 6	86 8	112 0	114 9	<sup>8</sup> 10,000	26,790	38,668	Texas
110,695	31,093	115,786	101 4	124 6	138 5	141 2	6,500	7,794	3,954	Utah
53,551	10,495	54,692	111 3	125 1	131 6	146 3	<sup>8</sup> 6,000	8,009	10,584	Vermont
481,799	69,676	424,693	<sup>3</sup> 67 5	90 4	102 2	122.7	23,662	15,412	13,263	Virginia
258,814	70,474	262,661	97 0	124 7	128 1	142 7	7,209	16,284	17,631	Washington
346,716	30,176	307,250	69 0	92 2	102 8	132 2	1,500	6,542	8,703	W Virginia
415,888	126,696	474,947	<sup>4</sup> 111 4	124 4	138 9	156 0	57,366	81,327	95,611	Wisconsin
40,474	9,664	42,140	<sup>4</sup> 77 0	101 5	117 4	143.0	<sup>8</sup> 116	1,356	610	Wyoming
3,772	581	3,559	—	—	132 3	138 9	—	—	—	Alaska
4,303	425	4,116	—	—	114 2	146 8	—	—	—	Canal Zone
2,837	76	2,861	—	—	—	199 4	—	—	—	Guam
54,782	4,078	55,740	—	—	168 3	158 1	—	8,261	9,651	Hawaii
1,053,799	55,156	961,375	—	—	156 0	169 9	—	40,379	74,454	Philippines
206,201	7,962	182,365	—	—	145 7	157 5	—	6,567	6,465	Porto Rico
3,070	48	3,015	—	—	—	195 3	—	—	1,162	Virgin Islands
1,800	—	1,600	—	—	—	165.0	—	—	400	A. Samoa

<sup>8</sup> Figures for 1908-9<sup>9</sup> Figures for 1919.<sup>10</sup> Figures for 1896-97.<sup>11</sup> Enrollment figures from report of the Bureau of the Census.<sup>12</sup> Figures for 1897-98.

Source Bureau of Education, Department of the Interior.

# No. 123.—PUBLIC ELEMENTARY AND SECONDARY SCHOOLS: NUMBER AND SALARY OF TEACHERS

NOTE.—Number of teachers includes some superintendents, principals, and supervisors, as some States do not report them separately. Average salary refers in 1900 to annual salary of teachers and supervising officers in cities of 5,000 or over; in 1910, to monthly salary of teachers. Both total salaries and annual average salary in 1926 refer to salaries of teachers, supervisors, and principals, the latter being based on number of teaching positions plus number of supervisors and principals

State	Number of teachers				Salaries of teachers, etc (1,000 dollars)	Per cent of teachers male			Average salary (dollars)		
	1900	1910	1920	1926	1926	1900	1910	1926	Annual, 1900	Monthly, 1910	Annual, 1926
Continental U. S.....	421,288	523,210	679,533	814,169	1,061,533	29.9	21.1	17.0	670.81	61.70	1,277
Alabama.....	6,578	8,756	12,558	15,535	10,446	30.1	35.0	17.7	457.04	55.18	678
Arizona.....	851	1,951	2,742	2,742	4,413	27.8	17.0	16.6	---	84.98	1,575
Arkansas.....	6,959	9,522	10,476	12,720	8,484	59.7	47.0	32.4	576.61	55.00	686
California.....	7,605	11,369	19,343	32,285	67,489	17.8	13.8	14.8	943.05	80.13	1,905
Colorado.....	3,597	5,200	7,386	9,512	12,836	20.9	15.6	16.8	776.65	63.22	1,290
Connecticut.....	4,160	5,277	8,455	9,356	16,376	8.9	6.2	8.3	578.74	58.95	1,572
Delaware.....	840	993	1,134	1,409	1,973	25.3	13.7	12.6	495.26	44.16	1,356
District of Columbia.....	1,226	1,631	2,096	2,578	5,566	13.1	11.5	11.5	683.99	98.41	2,068
Florida.....	2,729	4,015	6,819	10,435	8,403	36.9	26.7	11.7	412.55	52.10	831
Georgia.....	10,120	12,625	15,921	17,881	12,238	44.0	24.4	14.8	528.00	44.90	684
Idaho.....	1,060	2,232	3,982	4,330	5,175	31.2	25.5	22.1	---	69.96	1,134
Illinois.....	26,313	29,384	36,599	44,572	69,142	26.4	18.5	18.3	745.13	69.51	1,515
Indiana.....	15,617	17,267	17,209	21,069	31,037	46.2	35.7	27.4	599.05	65.93	1,361
Iowa.....	7,28,694	27,598	27,660	25,206	28,541	17.2	9.8	10.5	470.88	47.92	1,241
Kansas.....	11,513	13,467	16,989	18,960	21,677	32.7	18.0	18.1	517.60	63.36	1,114
Kentucky.....	9,960	11,100	13,348	15,016	12,990	45.5	41.7	26.0	583.69	39.37	777
Louisiana.....	4,157	6,286	8,966	11,011	10,281	47.9	21.4	14.9	499.70	52.27	892
Maine.....	6,445	7,457	7,020	6,824	5,268	16.4	11.2	12.2	448.05	36.89	844
Maryland.....	5,127	5,514	6,675	8,447	10,796	21.7	17.1	14.2	---	54.46	1,353
Massachusetts.....	13,575	15,321	19,085	24,315	41,571	8.8	9.1	12.7	728.69	69.95	1,618
Michigan.....	7,15,564	10,17,987	24,302	30,327	45,782	20.3	14.0	15.8	540.55	56.01	1,510
Minnesota.....	10,586	15,157	19,575	21,958	27,494	19.4	12.0	11.3	628.33	52.56	1,215
Mississippi.....	8,156	10,166	11,962	13,902	8,945	44.2	31.0	20.7	---	42.50	582
Missouri.....	16,201	18,365	21,126	26,157	28,009	37.6	26.4	23.8	587.36	57.18	1,153
Montana.....	1,214	2,250	7,215	6,295	6,457	16.6	12.0	11.8	844.10	72.63	1,096
Nebraska.....	9,463	11,099	14,873	14,511	15,656	21.8	11.9	11.3	626.39	55.24	1,047
Nevada.....	324	489	704	788	1,283	11.1	10.8	11.3	---	11.81	1,479
New Hampshire.....	2,979	3,040	3,047	3,011	3,499	8.9	7.1	11.3	520.87	39.75	1,164
New Jersey.....	6,689	12,087	17,440	21,807	44,400	12.9	12.3	11.1	597.31	77.77	1,030
New Mexico.....	966	1,474	2,752	3,160	3,315	55.2	34.4	22.2	---	67.82	1,028
New York.....	34,848	45,074	61,703	74,065	141,443	14.9	11.7	11.9	851.41	88.15	2,025
North Carolina.....	7,387	11,216	16,852	23,128	17,938	49.4	28.5	17.9	---	34.40	781
North Dakota.....	4,083	7,387	8,976	8,828	7,602	28.8	17.4	15.7	---	32.95	905
Ohio.....	26,017	27,841	33,751	40,229	59,976	40.4	31.1	20.8	620.14	58.66	1,411
Oklahoma.....	2,343	9,473	15,389	18,619	18,238	42.8	26.2	24.8	351.89	59.09	979
Oregon.....	3,742	4,453	7,778	7,663	10,013	28.4	19.4	15.8	651.56	58.63	1,267
Pennsylvania.....	29,390	35,496	44,111	54,129	81,863	32.0	22.6	18.9	582.02	51.12	1,468
Rhode Island.....	1,913	2,371	2,971	3,599	5,185	9.5	8.9	10.0	618.60	66.82	1,478
South Carolina.....	5,564	6,968	9,699	12,846	9,770	43.5	23.1	16.1	434.83	51.95	761
South Dakota.....	4,802	6,065	7,853	8,121	7,683	24.4	16.6	10.0	494.47	55.21	923
Tennessee.....	9,195	10,286	13,277	17,100	12,983	54.0	37.0	22.9	502.20	40.90	778
Texas.....	15,020	20,742	29,001	37,940	36,901	48.9	30.8	20.6	588.96	59.69	837
Utah.....	1,466	2,369	3,904	4,082	5,465	36.5	26.6	22.2	540.29	79.03	1,204
Vermont.....	3,742	3,257	2,902	2,921	2,651	13.6	8.9	8.0	455.59	34.75	899
Virginia.....	8,836	10,443	14,271	17,055	13,118	31.5	19.9	12.6	474.63	38.32	746
Washington.....	13,321	7,170	9,877	10,093	16,603	28.9	20.0	12.7	616.26	66.27	1,515
West Virginia.....	7,179	8,782	11,221	14,358	15,717	57.9	43.0	31.6	433.11	39.90	1,072
Wisconsin.....	13,063	14,729	17,094	20,233	26,261	18.4	11.8	14.9	548.53	54.85	1,237
Wyoming.....	570	1,109	2,232	3,041	3,504	15.6	12.8	12.7	---	60.35	1,143
OUTLYING AREAS											
Alaska Territory.....	---	---	164	197	318	---	---	9.6	---	---	1,561
American Samoa.....	---	---	---	45	13	---	---	86.7	---	---	294
Canal Zone.....	---	---	102	125	205	---	---	38.4	---	---	1,553
Guam.....	---	---	---	112	41	---	---	42.0	---	---	857
Hawaii Territory.....	---	---	21,326	1,976	3,096	---	---	13.8	---	---	1,865
Philippine Islands.....	---	---	1,254	25,208	5,660	---	---	58.5	---	---	---
Porto Rico.....	---	---	8,532	4,478	3,924	---	---	28.1	---	---	875
Virgin Islands.....	---	---	---	120	72	---	---	29.2	---	---	887

<sup>1</sup> Revised figure, 423,062, not distributed by States. <sup>2</sup> Includes 231 part-time teachers.

<sup>3</sup> Elementary only.

<sup>4</sup> 1931-32. <sup>5</sup> 1898-99. <sup>6</sup> Estimated number of teachers for 7,525 teaching positions. <sup>7</sup> Estimated

<sup>8</sup> 1891-92. <sup>9</sup> 1896-97. <sup>10</sup> 1908-9. <sup>11</sup> Includes superintendents and supervisors

<sup>12</sup> 1907-8. <sup>13</sup> 1897-98. <sup>14</sup> Figures for 1925.

Source: Bureau of Education, Department of the Interior.

## No. 124.—PUBLIC ELEMENTARY AND SECONDARY SCHOOLS: EXPENDITURES

Note.—Figures include new buildings as well as operation and equipment expenditures Per capita expenditures for outlying territories and possessions for 1926 were as follows: Alaska, \$9.03, Canal Zone, \$10.18, Guam, \$4.16, Hawaii, \$13.90; Philippine Islands, \$1, Porto Rico, \$4.01, Virgin Islands, \$3.64; American Samoa, \$2.77

State	Total expenditures (thousands of dollars)				Per capita of total population (dollars)				Per capita of population 5-17, inclusive (dollars)			
	1900	1910	1920	1926	1900	1910	1920	1926	1900	1910	1920	1926
<b>Continental United States</b> .....	<b>214, 964</b>	<b>426, 250</b>	<b>1, 036, 151</b>	<b>2, 028, 308</b>	<b>2 84</b>	<b>4 64</b>	<b>9 80</b>	<b>17 30</b>	<b>9 58</b>	<b>17 04</b>	<b>37. 37</b>	<b>67. 40</b>
Alabama.....	923	2, 904	9, 118	17, 351	. 50	1 36	3 83	6 87	1 42	4 25	11. 85	20. 90
Arizona.....	299	1, 000	6, 339	8, 507	2 44	4 91	18 97	19 12	9 59	20 40	72 91	76 21
Arkansas.....	1, 369	3, 187	7, 706	13, 966	1 04	2 04	4 40	7 34	2 93	5 99	13 67	22 89
California.....	6, 909	18, 210	48, 980	136, 988	4 65	7 66	14 29	31 74	19 61	33 72	72 12	166 17
Colorado.....	2, 793	5, 211	13, 200	26, 550	5 18	6 52	14. 05	25 07	23. 53	27. 03	56. 94	101. 38
Connecticut.....	3, 189	5, 450	16, 318	32, 943	3 51	4 91	11 82	20 51	14 92	21 35	50 12	88 56
Delaware.....	453	604	1, 676	3, 668	2 40	3 00	7 52	15 28	5 09	11 28	31 91	67 72
Dist. of Columbia.....	1, 076	2, 679	4, 297	9, 384	3 86	8. 10	9 82	17 77	17 36	37. 30	35 45	10 02
Florida.....	765	1, 773	7, 030	30, 089	1 45	2 36	7 26	22 85	4 36	9. 36	25 79	96 89
Georgia.....	1, 980	4, 419	9, 076	17, 358	. 89	1 70	3 13	5 53	2 52	5 32	9. 72	17 35
Idaho.....	400	2, 175	8, 591	9, 023	2 47	6 68	19 89	17 28	9 14	23 87	70 68	62 04
Illinois.....	17, 787	34, 036	69, 358	138, 934	3 08	6 08	10 69	19 29	13 03	24 15	44 32	82 53
Indiana.....	8, 182	14, 910	35, 764	61, 323	3 25	5 52	12 20	19 63	11. 02	21 71	50 18	83 06
Iowa.....	8, 496	12, 767	37, 334	57, 288	3 81	5 76	15 53	23 64	12 04	20 14	62 44	94 38
Kansas.....	4, 622	9, 812	26, 257	35, 603	3 14	5 81	14 84	19 55	9 95	19 54	56 71	75. 16
Kentucky.....	3, 037	5, 648	8, 117	17, 599	1 41	2 47	3 36	6 97	3. 93	7 98	11. 56	24. 37
Louisiana.....	1, 135	4, 252	11, 366	19, 785	82	2 57	6 32	10 31	2 41	7. 50	20. 39	33 90
Maine.....	1, 712	2, 934	6, 403	10, 289	2 47	3 95	8 34	13 02	10 02	17. 04	35 49	54. 89
Maryland.....	2, 803	3, 792	8, 242	21, 770	2 30	2 92	5 69	13 78	8 43	10. 49	22. 81	57 95
Massachusetts.....	13, 826	20, 135	40, 908	77, 374	4 93	5 98	10. 62	18 44	21 55	27. 68	46. 75	80 77
Michigan.....	7, 297	14, 596	47, 683	99, 447	3 01	5 20	13 00	22 62	9. 88	19. 24	54. 69	100 17
Minnesota.....	5, 630	13, 724	35, 734	51, 930	3 21	6 60	14 97	19 59	10 11	22 49	58 04	79. 69
Mississippi.....	1, 385	2, 726	5, 474	12, 600	8 99	1. 52	3 06	7 04	2 34	4. 46	9 26	21 17
Missouri.....	7, 816	13, 067	28, 707	53, 217	2 52	3 97	8 43	15 21	8 09	14 45	33 41	61 95
Montana.....	923	2, 633	12, 207	11, 567	3 79	7 01	22 24	16. 64	19 43	31 40	88. 88	66. 05
Nebraska.....	4, 403	7, 454	20, 580	29, 349	4 13	6 27	15 88	21 19	13 68	20 77	59 75	81 88
Nevada.....	224	619	1, 383	1, 958	5 30	7 57	16 59	25 43	24 26	35 51	89 75	116 91
New Hampshire.....	1, 052	1, 654	3, 810	6, 905	2 56	3 84	8 60	15 21	11 56	17 79	33 19	67 30
New Jersey.....	6, 608	17, 064	40, 909	92, 999	3 51	6 72	12 96	24 09	12. 82	27 33	53 27	106 34
New Mexico.....	343	793	4, 139	5, 254	1 76	2 43	11. 49	13 54	6 26	9 27	38 33	44 99
New York.....	33, 421	51, 861	106, 045	247, 450	4 60	5 69	10 21	21 89	18 71	25. 09	44 90	96 83
North Carolina.....	950	3, 037	12, 147	34, 692	. 50	1 38	4 75	12 14	1 89	4 40	14 48	37. 47
North Dakota.....	1, 526	4, 549	12, 883	14, 355	4 78	7 89	19 92	30 39	16 54	27. 19	64 81	64 32
Ohio.....	13, 335	25, 500	67, 426	127, 951	3 21	5 35	11 71	19 39	11 30	23 71	50 63	87. 11
Oklahoma.....	686	6, 739	22, 906	29, 068	1 72	4 07	11 29	12 41	5. 71	12. 99	36 00	40. 26
Oregon.....	1, 504	4, 646	9, 997	18, 950	3 86	6 90	12 76	21 61	14 30	27 62	55. 67	94. 29
Pennsylvania.....	21, 478	39, 988	73, 490	169, 643	3 41	5 22	8 43	17 65	12 21	21. 14	32 64	68 41
Rhode Island.....	1, 542	2, 486	4, 766	10, 300	3 61	4 59	7 89	14 86	15 36	20 83	33 33	66 59
South Carolina.....	894	1, 951	6, 627	16, 097	. 67	1 29	3 94	8 81	1 80	3 72	11. 63	26 27
South Dakota.....	1, 605	3, 825	11, 592	15, 136	4 00	6 56	18 21	21 97	13. 59	22. 59	65 43	80. 69
Tennessee.....	1, 751	4, 402	10, 141	20, 501	. 87	2 02	4 34	8 31	2 53	6. 32	14 33	27. 61
Texas.....	4, 465	11, 777	33, 606	65, 239	1 46	3 02	7 21	12. 28	4 18	9 09	23 81	42 40
Utah.....	1, 094	3, 052	8, 239	10, 013	3 96	8 19	18 34	19. 48	11 95	25 08	61 22	65 82
Vermont.....	1, 074	1, 608	3, 588	4, 526	3 13	4 52	10 18	12 86	12 68	20. 55	42. 62	53. 20
Virginia.....	1, 989	4, 407	12, 975	21, 823	1 07	2 15	5 62	8 66	3 15	6. 77	18 82	29. 82
Washington.....	2, 375	10, 493	20, 595	30, 728	4 59	9 21	15 18	19 98	16 53	40. 66	66 59	88. 08
West Virginia.....	2, 009	4, 094	11, 402	26, 235	2 10	3 36	7 79	15 72	9 97	11. 57	26 28	53 80
Wisconsin.....	5, 493	10, 789	27, 255	45, 744	2 65	4 64	10 36	15 86	8 88	15 57	39 93	64 38
Wyoming.....	253	796	3, 741	6, 838	2 74	5 46	19 25	28 98	12. 84	25. 77	79 50	117. 07

Source Bureau of Education, Department of the Interior.



# No. 125.—PUBLIC ELEMENTARY AND SECONDARY SCHOOLS: ENROLLMENT OF WHITE AND COLORED SCHOOL POPULATION IN 16 STATES

State	Enrollment in elementary and secondary schools				Ratio of enrollment in public schools to school population, per cent				Average number of days attended by each pupil enrolled, 1926	
	White		Colored		White		Colored		White	Colored
	1920	1926	1920	1926	1920	1926	1920	1926		
<b>Total</b> -----	<b>5,392,635</b>	<b>6,071,195</b>	<b>1,954,225</b>	<b>2,141,206</b>	<b>0.809</b>	<b>0.829</b>	<b>0.698</b>	<b>0.687</b>	<b>118</b>	<b>93</b>
Alabama-----	401,582	408,323	168,358	182,082	.856	.796	.561	.575	105	80
Arkansas-----	360,826	382,172	122,346	114,755	.869	.843	.824	.730	107	90
Delaware-----	31,897	33,170	6,586	6,127	.711	.711	.858	.813	187	141
Dist. of Columbia-----	45,775	49,438	19,523	24,057	.826	.811	.883	.988	149	151
Florida-----	157,666	263,458	67,494	79,185	.883	( )	.717	.766	115	91
Georgia-----	428,960	448,137	261,958	241,093	.812	.779	.647	.567	116	93
Louisiana-----	236,801	264,129	117,778	130,878	.700	.734	.536	.584	131	75
Maryland-----	197,088	214,084	44,530	48,165	.663	.691	.694	.748	156	131
Mississippi-----	220,861	290,145	191,809	282,841	.802	.800	.608	.609	111	94
North Carolina-----	478,189	564,114	213,060	254,625	.833	.895	.805	.862	115	94
Oklahoma-----	544,821	601,130	44,461	47,816	.925	.927	.940	.659	103	87
South Carolina-----	226,065	248,562	251,980	234,707	.876	.881	.808	.710	124	81
Tennessee-----	512,821	533,993	107,031	119,883	.891	.877	.810	.897	-----	-----
Texas-----	880,123	1,011,364	175,525	198,763	.729	.783	.761	.806	117	104
Virginia-----	360,941	398,501	144,249	152,974	.762	.785	.668	.683	129	106
West Virginia-----	328,719	360,475	17,537	22,255	.796	.777	.845	.929	132	132

<sup>1</sup> No basis for estimating growth of population since 1920

<sup>2</sup> Figures from report of the Bureau of Census, 1920.

Source: Bureau of Education, Department of the Interior.

# No. 126.—PUBLIC HIGH SCHOOLS AND PRIVATE HIGH SCHOOLS AND ACADEMIES: NUMBER OF PUPILS

NOTE.—Data are from reports received from the schools (see headnote Table 120) data for enrollment in high schools in outlying territories and possessions for 1926 are as follows: Alaska, 546, Canal Zone, 439; Hawaii, 5,736 (399 in 1920); Philippine Islands, 33,958, Porto Rico, 5,432 (2,790 in 1920), Virgin Islands, 72.

State	1890	1910	1920	1926	State	1890	1910	1920	1926
<b>Continental U. S.</b> -----	<b>297,894</b>	<b>1,032,461</b>	<b>2,041,308</b>	<b>3,313,085</b>	Montana-----	505	3,379	15,199	22,236
Alabama-----	2,829	9,847	23,884	36,105	Nebraska-----	5,068	20,701	38,442	61,285
Arizona-----	42	1,375	5,476	8,738	Nevada-----	249	722	1,787	2,380
Arkansas-----	1,687	8,025	17,306	25,508	New Hampshire-----	4,450	8,108	11,322	16,036
California-----	12,856	38,389	109,074	188,607	New Jersey-----	6,956	26,635	60,916	100,769
Colorado-----	1,192	12,714	22,728	35,169	New Mexico-----	133	1,560	4,445	8,885
Connecticut-----	5,558	16,332	32,629	46,575	New York-----	38,758	115,542	187,841	362,270
Delaware-----	796	1,953	3,474	6,051	North Carolina-----	3,684	13,401	33,713	68,574
Dist. of Col.	2,672	6,321	10,527	16,105	North Dakota-----	313	4,696	15,005	21,615
Florida-----	1,119	3,842	10,494	27,685	Ohio-----	23,470	65,524	123,434	204,905
Georgia-----	6,436	14,616	27,417	37,368	Oklahoma-----	231	9,228	39,459	62,983
Idaho-----	132	2,865	11,555	19,102	Oregon-----	1,282	9,791	24,954	38,917
Illinois-----	18,514	68,245	137,217	220,115	Pennsylvania-----	18,120	74,813	150,037	239,666
Indiana-----	8,998	45,511	68,882	117,600	Rhode Island-----	2,442	7,443	10,712	15,548
Iowa-----	13,699	43,173	75,299	108,019	South Carolina-----	2,143	6,500	12,634	28,914
Kansas-----	6,988	26,821	57,060	85,742	South Dakota-----	563	6,155	14,139	23,735
Kentucky-----	4,018	12,845	24,684	49,098	Tennessee-----	4,706	15,343	24,201	41,214
Louisiana-----	1,961	5,858	18,504	31,905	Texas-----	6,097	34,157	79,216	111,420
Maine-----	7,357	13,351	23,968	30,079	Utah-----	739	7,520	16,010	20,736
Maryland-----	2,894	9,923	19,207	33,365	Vermont-----	4,543	6,017	10,224	10,380
Massachusetts-----	23,696	61,176	92,641	138,353	Virginia-----	4,803	15,264	31,455	50,313
Michigan-----	13,824	42,364	75,201	126,586	Washington-----	805	19,522	42,944	66,939
Minnesota-----	6,817	29,645	57,208	90,896	West Virginia-----	822	4,815	18,001	33,346
Mississippi-----	2,737	9,156	16,625	23,546	Wisconsin-----	9,915	33,991	62,666	89,566
Missouri-----	10,086	36,311	67,331	99,677	Wyoming-----	179	967	3,970	8,959

Source: Bureau of Education, Department of the Interior.

# No. 127.—PUBLIC HIGH SCHOOLS AND PRIVATE HIGH SCHOOLS AND ACADEMIES: NUMBER OF TEACHERS AND PUPILS, 1925-26

NOTE.—Data for public high schools are compiled from reports from the schools and include seventh and eighth grades in junior high, see also headnote, Table 120. Data for teachers and pupils in private high schools and academies are as furnished by reporting schools supplemented by reports from the State departments of education and information furnished by the National Catholic Welfare Association; they are therefore more complete than figures published for prior years

State	Public high schools					Private high schools and academies				
	Number reporting	Teachers		Pupils		Number reporting	Teachers		Pupils	
		Male	Female	Male	Female		Male	Female	Male	Female
Continental United States	17,710	58,496	105,059	1,780,374	1,960,699	2,350	7,397	12,748	138,398	157,227
Alabama	220	509	1,150	18,778	23,112	47	150	226	2,674	3,710
Arizona	41	191	309	4,828	5,209	5	19	25	137	180
Arkansas	255	488	748	13,746	16,206	26	81	90	1,229	1,448
California	408	3,756	7,113	113,767	115,099	109	286	580	3,706	6,549
Colorado	190	734	1,508	22,764	25,004	14	43	93	675	854
Connecticut	92	539	1,362	22,121	23,617	58	370	627	5,871	5,591
Delaware	25	93	179	2,757	3,281	6	27	38	547	479
District of Columbia	15	211	541	7,630	8,963	30	92	209	1,522	1,907
Florida	177	451	1,243	17,428	21,002	25	58	115	728	1,155
Georgia	313	710	1,107	18,861	23,439	36	87	136	1,185	1,880
Idaho	131	372	544	9,680	10,967	11	17	47	262	533
Illinois	958	3,739	6,015	104,663	109,678	113	359	806	15,502	14,904
Indiana	809	2,929	3,878	67,247	72,213	36	162	186	1,894	2,583
Iowa	917	2,164	4,164	55,448	63,431	102	85	455	3,026	4,293
Kansas	722	1,816	3,353	48,529	54,658	33	68	125	1,378	1,777
Kentucky	540	875	1,262	21,864	27,215	74	99	254	1,888	3,070
Louisiana	251	496	946	12,669	17,108	50	99	286	2,435	3,204
Maine	212	415	798	12,766	14,208	54	128	228	2,833	3,152
Maryland	157	546	1,131	19,270	22,511	50	166	231	2,000	2,118
Massachusetts	347	2,067	5,035	82,094	88,332	117	413	766	6,173	10,261
Michigan	567	2,517	4,524	77,707	85,700	77	274	515	4,893	6,937
Minnesota	529	1,492	3,368	47,281	59,550	52	148	374	2,967	3,756
Mississippi	327	519	875	11,010	14,137	33	84	128	1,598	1,373
Missouri	725	1,795	2,765	49,880	55,635	61	168	342	3,039	3,958
Montana	191	404	716	10,310	12,310	11	21	60	496	724
Nebraska	565	1,105	2,145	29,752	35,942	35	48	181	1,037	1,782
Nevada	23	65	124	1,571	1,525	—	—	—	—	—
New Hampshire	105	241	533	7,784	8,419	28	—	106	2,948	1,556
New Jersey	174	1,440	2,821	52,441	53,522	77	382	366	5,824	3,676
New Mexico	92	172	297	4,112	4,733	17	24	51	482	720
New York	766	4,615	9,950	209,292	198,559	258	927	1,468	18,373	16,705
North Carolina	567	1,083	1,868	28,655	37,648	57	173	196	3,791	4,073
North Dakota	355	528	636	9,630	13,445	16	18	58	292	637
Ohio	1,077	4,169	6,390	121,907	128,333	105	266	704	7,060	9,585
Oklahoma	519	1,332	2,128	37,196	43,734	38	43	102	648	920
Oregon	249	632	1,180	18,652	21,081	21	52	92	816	830
Pennsylvania	999	4,602	6,937	136,825	148,436	145	550	934	9,970	12,000
Rhode Island	22	175	410	6,606	7,445	17	85	98	1,263	1,095
South Carolina	224	477	847	12,208	15,620	22	50	69	863	1,065
South Dakota	287	543	793	10,686	13,816	13	22	53	342	671
Tennessee	307	713	1,227	19,835	25,170	42	159	133	2,579	1,808
Texas	722	1,865	3,425	58,154	66,689	51	136	259	1,973	2,389
Utah	71	476	486	12,442	12,723	7	55	75	1,305	1,483
Vermont	76	147	332	4,839	5,460	18	45	97	892	1,358
Virginia	353	694	1,693	21,672	28,730	67	272	228	3,745	2,825
Washington	313	1,102	1,795	33,828	37,283	27	138	214	2,003	1,985
West Virginia	240	798	1,184	19,316	22,758	18	46	95	654	831
Wisconsin	425	1,506	2,862	44,887	51,326	39	172	222	2,835	2,804
Wyoming	62	188	362	4,986	5,717	2	6	5	40	34
OUTLYING AREAS										
Alaska Territory	12	16	24	289	257	—	—	—	—	—
Canal Zone	2	4	13	197	242	—	—	—	—	—
Hawaiian Territory	13	76	135	2,725	2,181	9	60	91	1,485	1,198
Philippine Islands	35	329	181	15,754	8,616	41	—	—	14,354	7,947
Porto Rico	15	69	112	2,199	2,260	10	—	—	298	675
Virgin Islands	3	7	10	122	81	—	—	—	—	—

Source: Bureau of Education, Department of the Interior.

# No. 128.—SCHOOL STATISTICS OF NONCONTIGUOUS TERRITORIES AND POSSESSIONS

	1899-1900 <sup>1</sup>	1909-10	1914-15	1920-21	1925-26	1926-27	1927-28
<b>HAWAII TERRITORY</b>							
Public schools:							
Number.....	140	152	170	174	182	187	185
Teachers.....	352	486	735	1,362	1,977	2,145	2,298
Male.....	112	106	139	155	278	337	388
Female.....	240	380	596	1,207	1,699	1,808	1,910
Pupils.....	11,501	19,909	28,827	41,151	58,860	62,208	66,434
Male.....	6,339	10,837	15,528	21,525	30,344	32,019	34,062
Female.....	5,162	8,972	13,299	19,626	28,516	30,189	32,372
Public and private schools: <sup>2</sup>							
Pupils.....	15,537	25,537	36,529	48,724	58,860	62,208	66,434
Hawaiian.....	4,977	4,381	3,866	3,966	3,465	3,323	3,355
Part-Hawaiian.....	2,631	3,842	4,494	6,097	5,978	6,526	7,109
Anglo-Saxon.....	1,250	1,605	1,894	2,503	2,101	2,345	2,974
Spanish.....				398	292	273	261
Portuguese.....	3,809	4,662	5,701	6,457	5,859	5,868	5,993
Japanese.....	1,352	7,078	13,553	20,608	30,295	32,316	34,621
Chinese.....	1,289	2,855	3,916	4,974	5,646	5,890	6,157
Porto Rican.....		372	934	1,199	1,047	1,031	1,053
Korean.....		260	462	898	1,149	1,310	1,444
Filipino.....				1,174	2,300	2,570	2,796
All other.....	229	582	1,709	450	728	756	671
<b>PORTO RICO</b>							
Population.....	953,243	1,118,012	1,200,000	1,327,897	1,422,000	1,440,000	1,459,000
Persons of school age.....	322,393	390,640	419,282	450,605	490,145	498,000	506,000
Persons attending school.....	25,528	121,453	168,319	193,269	213,641	213,321	220,940
Teachers.....	525	1,692	2,461	3,354	4,478	4,483	4,478
Public school buildings.....	( <sup>3</sup> )	274	449	596	905	991	1,035
Rented buildings.....	( <sup>3</sup> )	751	1,045	1,315	1,376	1,193	1,109
Schoolrooms.....	525	( <sup>3</sup> )	2,449	3,166	4,445	4,454	4,470
School expenditures.....	\$288,098	\$1,244,502	\$1,904,720	\$4,083,385	\$6,556,361	\$6,438,842	\$6,503,842
For university.....				\$246,752	\$539,225	\$585,945	\$669,376
Expenditures per inhabitant.....	\$0.30	\$1.11	\$1.59	\$3.08	\$4.61	\$4.47	\$4.46
<b>PHILIPPINE ISLANDS</b>							
Schools.....	2,285	4,531	4,187	6,904	7,278	7,348	7,346
Primary.....	2,233	4,295	3,837	6,101	5,991	5,993	7,234
Intermediate.....	17	198	309	738	1,180	1,242	
Secondary.....	35	38	41	65	107	113	112
Teachers.....	4,641	9,007	9,845	20,925	25,175	25,971	25,987
American.....	787	732	538	315	288	294	
Filipino.....	3,854	8,275	9,307	20,610	24,887	25,677	
Highest monthly enrollment.....	7227,600	8451,938	8536,939	9836,281	11,014,003	9994,480	11,111,403
<b>ALASKA TERRITORY</b>							
Native schools: <sup>10</sup>							
Number.....	25	77	67	67	86	86	95
Pupils enrolled.....	1,753	3,964	3,436	3,610	3,703	3,616	3,742
Average attendance.....		1,692	1,963	2,367	2,550	2,451	2,015
Teachers.....	27	103	102	139	159	167	177
Teachers' salaries.....	\$18,341	\$85,834	\$94,558	\$133,302	\$192,045	\$203,025	\$227,857
Total cost.....	\$29,274	\$195,613	\$199,574	\$274,991	\$434,030	\$437,700	\$469,400
White schools: <sup>11</sup>							
Teachers.....			105	165	211	232	235
Pupils enrolled.....		12,621	2,503	3,482	4,352	4,915	4,828
Average attendance.....			2,729	3,560	3,766	3,766	3,970
Expenditures.....		12,336,486	\$167,633	\$371,535	\$488,587	\$502,661	\$584,829

<sup>1</sup> Statistics for Porto Rico are for 1898-99, for Philippine Islands, for 1903-4.

<sup>2</sup> Statistics for private schools for 1909-10 and 1914-15 are as of Dec. 31 of 1909 and 1914, respectively. Statistics for 1925-26, 1926-27, and 1927-28 are for public schools only, the number of pupils in private schools being 9,651, 10,516, and 9,497, respectively.

<sup>3</sup> Census of 1910.

<sup>4</sup> Census estimates as of July 1, 1921, 1926, 1927, and 1928.

<sup>5</sup> No school buildings on the island, the 525 schools in operation being conducted, as a rule, in teachers' residences.

<sup>6</sup> Not available.

<sup>7</sup> March.

<sup>8</sup> September.

<sup>9</sup> Average monthly enrollment.

<sup>10</sup> Statistics for 1899-1900 are for all public schools.

<sup>11</sup> Including mixed schools outside of incorporated towns and districts.

<sup>12</sup> Native and mixed schools outside of incorporated towns only.

Sources: Hawaii and Porto Rico, reports of the Governor of Hawaii and Porto Rico, respectively. Philippine Islands, reports of the director of education. Alaska, native schools, Bureau of Education, Department of the Interior; white schools, reports of the Governor of Alaska.

No. 129.—NORMAL SCHOOLS AND TEACHERS' COLLEGES: NUMBER OF SCHOOLS AND TEACHERS AND PUPILS, BY SEX, BY STATES

NOTE.—For separate data for public normal schools and teachers' colleges for United States, see Table 121

		Public normal schools and public and private teachers' colleges								Private normal schools, 1928		
State	Number, 1928	Teachers				Pupils				Number	Teachers	Pupils
		Male		Female		Male		Female				
		1920	1928	1920	1928	1920	1928	1920	1928			
Continental U. S.---	280	3, 099	5, 253	5, 226	7, 766	26, 563	57, 374	126, 346	225, 389	59	1, 443	14, 667
Alabama-----	7	66	100	95	189	646	1, 407	2, 213	7, 154	1	259	2, 324
Arizona-----	2	23	53	38	45	131	376	528	1, 342	-----	-----	-----
Arkansas-----	2	25	39	23	39	359	921	750	1, 495	-----	-----	-----
California-----	7	63	230	169	254	88	2, 497	2, 313	8, 652	2	32	216
Colorado-----	3	58	111	71	90	638	998	1, 710	4, 631	1	9	240
Connecticut-----	5	22	20	83	175	-----	-----	569	1, 159	4	46	388
Dist. of Columbia--	2	5	4	26	43	2	42	189	496	1	14	200
Georgia-----	7	20	52	121	142	10	463	1, 803	2, 651	-----	-----	-----
Idaho-----	2	18	31	50	44	64	208	1, 019	1, 811	5	21	449
Illinois-----	8	151	270	197	361	1, 430	2, 932	7, 065	13, 028	5	101	887
Indiana-----	4	89	154	117	163	1, 665	2, 147	4, 147	5, 840	1	28	175
Iowa-----	1	77	86	95	126	374	974	3, 784	4, 742	1	20	216
Kansas-----	3	117	165	129	163	1, 102	2, 293	4, 961	6, 254	-----	-----	-----
Kentucky-----	6	49	159	75	180	763	2, 669	2, 401	6, 514	-----	-----	-----
Louisiana-----	3	36	63	50	74	116	468	1, 107	2, 546	-----	-----	-----
Maine-----	7	14	38	70	107	32	234	542	2, 233	-----	-----	-----
Maryland-----	5	24	17	63	71	47	142	868	1, 256	-----	-----	-----
Massachusetts-----	11	86	106	238	294	204	372	2, 575	4, 649	9	224	1, 982
Michigan-----	31	124	286	307	513	987	3, 537	6, 491	11, 282	-----	-----	-----
Minnesota-----	6	63	76	141	181	213	581	3, 756	4, 813	2	30	439
Mississippi-----	3	12	54	16	47	168	443	875	1, 668	1	21	327
Missouri-----	9	174	253	185	254	2, 047	3, 003	6, 781	9, 401	-----	-----	-----
Montana-----	2	14	23	32	37	17	96	550	992	-----	-----	-----
Nebraska-----	4	72	92	100	122	774	1, 449	2, 878	4, 054	2	25	357
New Hampshire-----	3	27	22	32	50	21	107	816	1, 095	-----	-----	-----
New Jersey-----	6	26	38	160	166	23	200	1, 587	4, 026	2	52	926
New Mexico-----	3	26	52	42	47	495	426	1, 562	1, 083	-----	-----	-----
New York-----	16	186	261	512	728	1, 196	2, 096	8, 252	17, 890	8	211	1, 271
North Carolina-----	6	41	106	84	139	393	384	1, 707	5, 923	1	25	281
North Dakota-----	5	72	91	142	171	432	1, 029	2, 142	4, 446	-----	-----	-----
Ohio-----	9	126	215	194	206	853	1, 113	6, 123	5, 633	3	64	344
Oklahoma-----	7	169	352	126	215	2, 265	4, 206	8, 096	10, 583	-----	-----	-----
Oregon-----	2	5	24	23	86	15	307	722	2, 193	2	42	448
Pennsylvania-----	17	182	278	317	586	1, 586	2, 905	7, 145	12, 193	4	77	1, 811
Rhode Island-----	1	7	12	74	63	3	43	454	847	-----	-----	-----
South Carolina-----	1	31	43	18	37	388	326	530	656	2	22	366
South Dakota-----	4	66	95	131	115	472	691	2, 109	2, 965	1	12	129
Tennessee-----	5	77	189	58	148	709	2, 373	3, 171	8, 398	1	23	86
Texas-----	9	194	360	139	400	2, 114	5, 157	6, 361	15, 226	-----	-----	-----
Utah-----	-----	49	-----	28	-----	4	-----	48	-----	1	22	252
Vermont-----	1	2	1	13	9	3	2	277	123	-----	-----	-----
Virginia-----	8	57	178	146	279	410	1, 033	4, 234	7, 480	-----	-----	-----
Washington-----	3	61	80	104	125	252	785	2, 588	3, 099	3	63	553
West Virginia-----	7	79	126	85	109	819	2, 455	1, 934	6, 130	-----	-----	-----
Wisconsin-----	27	214	248	307	364	2, 233	3, 484	6, 613	6, 949	-----	-----	-----
Hawaii-----	-----	4	-----	50	-----	42	-----	381	-----	-----	-----	-----
PRIVATE TEACHERS' COLLEGES ONLY (I N C L U D E D ABOVE)	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Illinois-----	1	4	8	18	53	-----	-----	257	743	-----	-----	-----
Indiana-----	2	37	33	46	51	1, 022	435	1, 807	1, 951	-----	-----	-----
North Carolina-----	1	-----	36	-----	47	-----	50	-----	1, 674	-----	-----	-----
Tennessee-----	1	50	106	23	63	337	946	1, 461	3, 076	-----	-----	-----
Utah-----	-----	49	-----	28	-----	4	-----	48	-----	-----	-----	-----
Virginia-----	1	-----	104	-----	71	-----	665	-----	1, 233	-----	-----	-----

Source Bureau of Education, Department of the Interior.

## No. 130.—UNIVERSITIES, COLLEGES, AND

Year and State	Number of institutions	Professors and instructors		Students					
				Preparatory		Collegiate		Postgraduate	
		Male	Female	Male	Female	Male	Female	Male	Female
CONTINENTAL UNITED STATES									
1890.....	657	6,834	1,084	29,530	22,219	44,650	20,624	1,973	409
1900.....	664	14,546	3,674	34,814	21,471	68,047	36,051	4,112	1,719
1910.....	602	21,813	2,854	42,616	17,776	113,074	40,792	6,504	2,649
1920.....	670	34,111	8,771	38,398	20,911	212,405	128,677	9,837	5,775
1922.....	780	39,393	10,445	45,782	21,867	254,514	160,292	15,046	7,970
1924.....	913	44,345	11,934	38,825	23,033	289,817	196,482	18,444	10,355
1926.....	975	48,449	13,575	33,185	22,447	347,665	247,793	20,159	12,341
Alabama.....	12	378	166	482	286	4,258	2,681	38	17
Arizona.....	2	112	33	---	---	944	670	72	60
Arkansas.....	11	270	114	337	352	1,913	1,545	7	8
California.....	44	2,865	762	1,359	723	15,892	14,130	1,519	1,313
Colorado.....	10	615	141	338	182	4,276	2,374	142	106
Connecticut.....	8	713	87	28	---	4,539	954	471	129
Delaware.....	1	58	18	---	---	376	293	6	---
District of Columbia.....	13	1,026	109	65	87	5,162	3,416	610	304
Florida.....	6	199	118	85	46	1,962	2,051	37	16
Georgia.....	30	829	346	980	1,087	5,392	4,418	167	44
Idaho.....	4	164	55	14	7	1,653	1,385	49	21
Illinois.....	56	3,360	850	3,041	867	21,206	18,887	3,310	2,239
Indiana.....	26	1,044	322	410	335	10,793	7,203	288	112
Iowa.....	32	1,343	567	1,108	236	9,886	8,929	608	350
Kansas.....	28	864	410	807	382	7,946	6,600	265	191
Kentucky.....	26	608	234	1,422	1,637	3,468	2,813	95	60
Louisiana.....	11	670	217	423	492	3,375	2,794	78	89
Maine.....	5	213	29	---	---	2,209	788	50	32
Maryland.....	19	1,336	257	987	274	6,219	3,998	385	189
Massachusetts.....	31	2,913	623	1,304	243	19,390	11,952	1,464	833
Michigan.....	25	1,547	300	746	599	12,063	6,919	709	270
Minnesota.....	28	1,134	432	2,101	986	8,264	6,717	831	311
Mississippi.....	16	210	221	293	571	2,665	2,912	17	4
Missouri.....	46	1,642	520	843	861	8,724	6,975	403	223
Montana.....	5	155	44	74	---	1,641	1,011	61	29
Nebraska.....	14	770	237	1,035	805	5,568	5,184	230	195
Nevada.....	1	56	16	---	---	575	338	14	9
New Hampshire.....	3	318	14	150	---	3,259	375	25	2
New Jersey.....	15	635	78	275	31	3,943	1,214	236	21
New Mexico.....	4	86	19	334	---	638	243	6	6
New York.....	63	6,585	1,266	3,494	1,750	47,437	28,983	2,424	1,944
North Carolina.....	31	738	434	652	1,037	6,822	5,481	280	71
North Dakota.....	4	262	91	241	103	1,629	1,233	53	8
Ohio.....	52	2,732	781	1,954	635	20,474	16,684	869	482
Oklahoma.....	13	512	219	393	434	5,267	5,047	164	102
Oregon.....	14	559	176	230	328	4,497	3,287	125	82
Pennsylvania.....	66	4,458	741	2,080	844	28,996	14,022	1,820	1,179
Rhode Island.....	4	196	13	---	---	2,290	630	121	76
South Carolina.....	22	396	255	170	644	3,958	4,392	92	70
South Dakota.....	9	240	100	346	147	1,763	1,288	31	20
Tennessee.....	29	897	268	791	1,202	4,704	4,082	77	41
Texas.....	57	1,454	749	1,020	2,184	12,617	13,662	396	285
Utah.....	7	254	106	200	215	2,948	2,676	123	41
Vermont.....	4	251	34	72	---	1,280	679	18	8
Virginia.....	31	821	342	298	1,001	6,669	4,043	137	43
Washington.....	8	520	131	747	123	6,484	4,497	355	224
West Virginia.....	11	282	137	276	427	2,272	1,720	157	127
Wisconsin.....	17	1,289	347	1,132	199	7,916	5,176	697	342
Wyoming.....	1	64	46	48	85	543	442	27	13
OUTLYING AREAS, 1926									
Alaska.....	1	13	4	---	---	40	28	---	---
Hawaii.....	1	41	10	---	---	328	132	15	13
Porto Rico.....	1	56	31	304	417	336	339	---	---

1 Independent professional schools not included prior to 1920.

PROFESSIONAL SCHOOLS: <sup>1</sup> By STATES

Students—Continued							Total receipts, exclusive of additions to endowment	Year and State
Professional <sup>1</sup>		All other students		Total enrollment (excluding duplicates)				
Male	Female	Male	Female	Both sexes	Male	Female		
							<i>Dollars</i>	CONTINENTAL UNITED STATES
15,342	269	-----	-----	156,449	102,618	53,831	-----	1890.
29,324	1,021	-----	-----	197,163	136,297	60,866	-----	1900
37,903	1,338	-----	-----	274,084	200,339	73,745	77,873,367	1910.
53,285	3,836	27,533	38,326	521,754	334,226	187,528	189,235,242	1920.
70,305	5,161	26,496	29,453	618,555	402,036	216,519	272,703,983	1922.
85,865	5,651	33,144	39,859	726,124	457,701	268,423	340,985,026	1924
92,591	5,822	23,211	30,355	822,895	509,732	313,163	407,400,056	1926
356	2	170	521	8,468	5,260	3,208	3,540,789	Alabama
62	2	100	62	1,972	1,178	794	1,246,208	Arizona.
293	1	144	718	4,752	2,610	2,142	2,312,320	Arkansas
4,930	415	482	821	41,421	24,046	17,375	21,346,381	California.
877	79	151	123	8,375	5,636	2,739	4,492,500	Colorado.
890	33	74	74	7,097	5,907	1,190	8,596,764	Connecticut.
3,651	255	171	26	13,611	9,530	4,081	537,445	Delaware
331	11	104	189	4,737	2,456	2,281	4,746,851	District of Columbia.
1,650	32	84	467	14,255	8,270	5,985	3,367,097	Florida
54	2	107	143	3,324	1,793	1,531	6,327,395	Georgia.
8,427	647	4,450	2,862	64,644	39,509	25,135	1,846,435	Idaho
1,961	94	262	344	21,720	13,705	8,015	22,588,809	Illinois
1,667	94	413	1,202	24,126	13,544	10,582	10,633,779	Indiana.
625	71	711	1,858	18,646	9,975	8,671	12,966,869	Iowa.
1,287	53	80	299	11,066	6,262	4,804	6,678,181	Kansas
1,222	61	53	133	8,692	5,140	3,552	4,859,042	Kentucky.
37	4	15	5	3,139	2,311	828	4,682,426	Louisiana.
2,438	67	176	234	14,872	10,170	4,702	2,052,029	Maine
8,140	810	401	215	44,730	30,693	14,037	9,520,951	Maryland
3,043	126	164	385	25,636	17,410	8,226	29,752,237	Massachusetts.
2,308	138	551	1,044	22,646	13,771	8,875	14,083,347	Michigan
207	3	85	312	7,001	3,264	3,737	11,610,614	Minnesota
5,122	247	407	1,449	24,654	15,231	9,423	3,798,335	Mississippi
89	12	56	139	3,072	1,921	1,151	11,342,453	Missouri
1,545	51	395	705	15,185	8,325	6,860	1,488,187	Montana
47	-----	24	11	813	575	333	5,406,361	Nebraska.
2,457	196	44	7	3,900	3,525	375	648,585	Nevada
-----	-----	52	69	8,494	6,963	1,531	3,068,935	New Hampshire.
-----	-----	14	25	1,259	985	274	6,471,689	New Jersey.
15,705	1,003	3,552	2,889	107,770	71,202	36,568	830,321	New Mexico.
591	7	365	718	15,667	8,575	6,992	55,318,685	New York
183	13	159	144	3,662	2,236	1,426	8,330,327	North Carolina.
4,197	255	2,254	2,613	49,736	29,363	20,373	1,861,378	North Dakota.
667	109	285	616	12,743	6,592	6,151	21,707,394	Ohio.
1,250	159	171	260	10,161	6,142	4,019	4,561,708	Oklahoma
7,470	346	4,222	3,188	64,036	44,558	19,478	4,396,659	Oregon.
143	15	30	4	3,295	2,575	720	28,017,694	Pennsylvania
371	12	101	615	10,156	4,473	5,683	2,599,922	Rhode Island
196	9	180	370	4,356	2,600	1,756	4,783,948	South Carolina.
1,892	54	459	804	13,623	7,640	5,983	2,752,747	South Dakota.
2,055	138	660	1,739	34,206	16,508	17,698	6,266,031	Tennessee
136	5	274	214	6,460	3,493	2,967	14,704,762	Texas.
97	8	5	11	2,147	1,456	691	2,099,888	Utah.
1,564	32	166	429	14,256	8,748	5,508	1,407,928	Vermont
428	69	50	247	13,105	8,033	5,072	8,583,827	Virginia.
280	10	101	252	5,417	3,037	2,380	4,851,825	Washington
1,628	72	182	737	17,983	11,547	6,436	2,911,602	West Virginia.
22	-----	51	63	1,140	613	527	10,043,573	Wisconsin
-----	-----	12	20	68	40	28	1,119,312	Wyoming.
-----	-----	46	149	683	389	294	257,217	OUTLYING AREAS, 1926
98	22	100	46	1,662	838	824	392,505	Alaska.
-----	-----	-----	-----	-----	-----	-----	785,724	Hawaii.
-----	-----	-----	-----	-----	-----	-----	-----	Porto Rico.

Source. Bureau of Education, Department of the Interior.

# No. 131.—NUMBER OF STUDENTS PURSUING SPECIFIED PROFESSIONAL COURSES, 1925-26

NOTE.—Porto Rico has 1 school of law with 53 men and 3 women students and 1 school of pharmacy with 45 men and 19 women

State	Theology			Law			Medicine <sup>1</sup>			Dentistry			Pharmacy			Veterinary medicine		
	Schools reporting	Men	Women	Schools reporting	Men	Women	Schools reporting	Men	Women	Schools reporting	Men	Women	Schools reporting	Men	Women	Schools reporting	Men	Women
Continental U. S.	180	12,201	1,454	136	38,175	2,184	77	18,690	992	43	11,626	151	67	10,005	810	12	535	2
Alabama	2	28	---	1	148	1	1	101	1	---	---	---	1	64	---	1	15	---
Arizona	---	---	---	1	62	2	---	---	---	---	---	---	---	---	---	---	---	---
Arkansas	2	92	---	1	27	---	1	155	1	---	---	---	1	19	---	---	---	---
California	8	364	110	13	2,271	133	3	566	86	3	1,101	12	3	461	30	---	---	---
Colorado	1	90	28	3	306	16	1	157	13	1	179	1	2	94	21	1	51	---
Connecticut	3	304	11	1	397	15	1	189	7	---	---	---	---	---	---	---	---	---
District of Columbia	3	132	2	6	2,440	219	3	757	15	2	227	2	2	87	17	1	8	---
Florida	1	6	---	2	282	11	---	---	---	---	---	---	1	43	---	---	---	---
Georgia	6	393	5	3	349	11	2	327	4	1	364	1	2	203	11	1	14	---
Idaho	---	---	---	1	33	---	---	---	---	---	---	---	1	21	2	---	---	---
Illinois	15	1,580	337	9	2,995	119	5	2,215	132	3	1,075	11	1	458	29	---	---	---
Indiana	4	197	45	5	589	18	1	375	10	1	371	2	4	429	19	---	---	---
Iowa	5	183	25	2	325	8	1	390	13	1	248	1	2	180	12	1	96	---
Kansas	2	97	41	2	203	9	1	167	12	---	---	---	1	99	9	1	59	---
Kentucky	6	593	36	3	244	10	1	247	5	1	103	1	1	100	1	---	---	---
Louisiana	---	---	---	3	435	---	---	541	16	2	145	4	2	101	19	---	---	---
Maine	1	37	4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Maryland	4	542	1	1	575	21	2	612	32	1	485	3	1	224	10	---	---	---
Massachusetts	9	769	148	5	5,249	554	4	1,259	62	2	465	11	1	398	35	---	---	---
Michigan	4	115	10	3	1,582	33	2	772	43	1	400	19	2	141	21	1	33	---
Minnesota	6	358	18	5	953	54	1	487	35	1	375	3	1	135	28	---	---	---
Mississippi	1	8	---	1	91	1	---	63	---	---	---	---	---	60	---	---	---	---
Missouri	8	938	49	6	1,389	69	4	938	21	3	899	3	2	368	11	---	---	---
Montana	---	---	---	1	46	---	---	---	---	---	---	---	1	43	11	---	---	---
Nebraska	3	51	1	3	450	7	2	462	18	2	318	2	2	264	23	---	---	---
Nevada	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
New Hampshire	1	12	---	---	---	---	1	35	---	---	---	---	---	---	---	---	---	---
New Jersey	5	554	86	1	1,647	95	---	---	---	---	---	---	1	256	15	---	---	---
New Mexico	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
New York	19	1,572	156	10	8,569	525	9	2,130	166	3	1,019	18	5	2,328	136	1	87	2
North Carolina	5	82	3	3	272	1	2	118	2	---	---	---	1	119	1	---	---	---
North Dakota	---	---	---	1	64	1	1	48	2	---	---	---	1	71	10	---	---	---
Ohio	11	643	58	7	1,497	104	4	901	41	4	494	3	4	606	49	1	56	---
Oklahoma	1	76	84	2	315	7	1	167	10	---	---	---	1	109	8	---	---	---
Oregon	2	168	102	3	248	8	1	205	9	1	402	---	2	227	40	---	---	---
Pennsylvania	18	851	8	5	1,439	39	6	1,715	129	3	1,865	37	4	1,289	96	1	58	---
Rhode Island	---	---	---	---	---	---	---	---	---	---	---	---	1	143	15	---	---	---
South Carolina	4	77	---	2	119	4	1	149	7	---	---	---	1	26	1	---	---	---
South Dakota	---	---	---	1	93	2	1	35	1	---	---	---	1	68	6	---	---	---
Tennessee	6	231	16	4	603	15	3	601	6	3	321	5	2	136	12	---	---	---
Texas	5	608	70	4	517	17	2	473	30	2	304	8	2	140	13	1	13	---
Utah	---	---	---	1	62	1	---	44	---	---	---	---	1	30	4	---	---	---
Vermont	---	---	---	---	---	---	---	97	8	---	---	---	---	---	---	---	---	---
Virginia	4	276	---	5	537	8	2	570	18	1	78	---	1	103	6	---	---	---
Washington	1	4	---	2	153	4	---	---	---	---	---	---	2	226	65	1	45	---
West Virginia	---	---	---	1	123	3	1	117	2	---	---	---	1	40	5	---	---	---
Wisconsin	4	175	---	2	454	16	2	505	34	1	388	4	1	106	18	---	---	---
Wyoming	---	---	---	1	22	---	---	---	---	---	---	---	---	---	---	---	---	---

<sup>1</sup> United States has 5 schools reporting 1,359 men and 229 women pursuing courses in osteopathy

Source Bureau of Education, Department of the Interior.

**No. 132.—UNIVERSITIES, COLLEGES, AND PROFESSIONAL SCHOOLS:  
LIBRARIES AND OTHER PROPERTY, 1925-26**

State	Volumes in libraries	Value of libraries, scientific apparatus, machinery, and furniture	Value of grounds	Value of buildings (including dormitories)	Value of dormitories	Productive funds
Continental United States-----	37, 549, 463	Dollars 219, 073, 684	Dollars 225, 721, 958	Dollars 911, 498, 850	Dollars 159, 305, 603	Dollars 978, 012, 929
Alabama-----	257, 674	1, 402, 982	1, 385, 228	6, 870, 649	2, 059, 336	4, 463, 647
Arizona-----	70, 000	538, 750	515, 000	1, 634, 500	5, 525, 500	10, 000
Arkansas-----	138, 985	886, 273	515, 523	3, 520, 135	1, 479, 449	2, 076, 733
California-----	1, 847, 482	12, 596, 053	10, 034, 581	35, 746, 291	4, 895, 515	53, 995, 283
Colorado-----	438, 722	2, 613, 793	1, 473, 926	10, 521, 843	461, 000	3, 882, 781
Connecticut-----	2, 162, 330	8, 015, 353	1, 402, 038	45, 064, 463	13, 398, 614	53, 311, 831
Delaware-----	32, 277	543, 190	310, 085	1, 403, 342	362, 500	5, 535, 249
District of Columbia-----	785, 111	2, 083, 554	1, 933, 613	19, 876, 458	628, 480	5, 825, 459
Florida-----	137, 759	2, 648, 905	2, 599, 300	3, 888, 930	1, 366, 174	2, 539, 770
Georgia-----	423, 709	2, 787, 383	3, 727, 498	12, 983, 617	3, 198, 292	9, 727, 657
Idaho-----	112, 567	827, 734	279, 750	1, 922, 100	410, 000	2, 408, 619
Illinois-----	2, 696, 196	13, 156, 924	10, 948, 889	53, 176, 368	5, 850, 220	75, 135, 908
Indiana-----	902, 469	4, 632, 518	4, 020, 317	22, 238, 477	4, 748, 473	15, 755, 339
Iowa-----	972, 626	8, 355, 964	5, 286, 703	22, 050, 012	4, 119, 047	13, 538, 967
Kansas-----	570, 976	5, 453, 586	2, 970, 287	13, 266, 676	2, 007, 241	6, 415, 381
Kentucky-----	358, 168	2, 727, 310	2, 986, 296	9, 678, 598	3, 101, 660	7, 900, 102
Louisiana-----	244, 711	2, 388, 295	1, 961, 419	11, 708, 831	1, 483, 646	8, 406, 003
Maine-----	347, 602	3, 497, 903	177, 104	5, 012, 195	666, 914	8, 242, 484
Maryland-----	691, 606	4, 215, 728	4, 426, 417	48, 040, 556	3, 436, 517	27, 117, 632
Massachusetts-----	4, 020, 795	11, 292, 949	17, 208, 372	65, 363, 606	17, 879, 452	159, 694, 622
Michigan-----	1, 071, 931	10, 766, 545	9, 823, 145	28, 874, 152	4, 362, 896	9, 202, 221
Minnesota-----	879, 471	6, 624, 091	8, 874, 179	25, 415, 985	4, 099, 729	15, 501, 668
Mississippi-----	196, 225	2, 108, 840	1, 487, 970	7, 040, 412	2, 518, 635	3, 443, 330
Missouri-----	1, 084, 224	8, 925, 600	4, 468, 781	26, 807, 449	5, 105, 013	26, 708, 872
Montana-----	153, 930	977, 959	676, 423	4, 261, 174	506, 301	2, 369, 029
Nebraska-----	387, 255	2, 651, 806	3, 256, 187	9, 866, 665	662, 766	4, 996, 793
Nevada-----	44, 725	298, 951	110, 000	653, 406	172, 516	358, 439
New Hampshire-----	292, 876	1, 154, 000	920, 000	6, 100, 000	2, 435, 000	8, 685, 415
New Jersey-----	1, 152, 167	2, 346, 857	4, 139, 736	10, 654, 368	2, 454, 817	26, 611, 058
New Mexico-----	65, 017	614, 656	296, 000	1, 580, 135	418, 500	1, 247, 630
New York-----	4, 308, 562	19, 253, 239	37, 578, 993	112, 910, 151	13, 465, 096	146, 461, 780
North Carolina-----	520, 288	4, 131, 825	4, 061, 022	21, 315, 549	8, 061, 418	13, 549, 825
North Dakota-----	144, 248	1, 415, 799	356, 246	3, 116, 931	394, 644	4, 146, 316
Ohio-----	2, 226, 858	12, 325, 896	14, 880, 079	46, 308, 196	8, 694, 523	55, 905, 247
Oklahoma-----	178, 250	2, 172, 567	724, 284	6, 717, 371	1, 286, 795	5, 988, 262
Oregon-----	362, 304	2, 149, 056	1, 913, 319	6, 897, 100	1, 015, 633	4, 566, 637
Pennsylvania-----	2, 666, 757	20, 124, 419	19, 652, 623	74, 915, 478	9, 212, 165	78, 395, 013
Rhode Island-----	390, 000	342, 000	1, 133, 000	5, 199, 000	1, 000, 000	8, 669, 880
South Carolina-----	364, 391	2, 531, 160	4, 363, 345	12, 439, 372	2, 793, 308	3, 988, 998
South Dakota-----	168, 025	1, 338, 484	1, 047, 648	4, 276, 287	677, 381	2, 854, 637
Tennessee-----	428, 353	2, 861, 733	4, 384, 578	15, 440, 206	2, 626, 632	17, 052, 088
Texas-----	841, 664	8, 031, 537	9, 188, 609	26, 994, 430	6, 927, 301	32, 554, 216
Utah-----	197, 755	1, 224, 598	185, 873	4, 018, 550	64, 500	697, 660
Vermont-----	208, 716	738, 251	170, 195	3, 646, 628	1, 044, 028	4, 789, 975
Virginia-----	638, 403	3, 685, 636	2, 748, 184	18, 747, 003	3, 723, 004	13, 743, 966
Washington-----	407, 411	2, 121, 455	2, 221, 840	8, 045, 274	503, 945	9, 115, 847
West Virginia-----	179, 151	1, 562, 681	2, 555, 398	7, 333, 809	1, 074, 873	3, 022, 191
Wisconsin-----	716, 389	5, 407, 196	4, 123, 405	15, 820, 122	1, 770, 143	10, 597, 698
Wyoming-----	61, 330	321, 800	218, 000	2, 166, 000	200, 000	1, 796, 071
<b>OUTLYING AREAS</b>						
Alaska Territory-----	7, 279	108, 318	2, 338	180, 065	25, 000	-----
Hawaii Territory-----	38, 447	325, 622	827, 247	536, 346	43, 315	5, 500
Porto Rico-----	16, 300	257, 000	55, 900	356, 350	-----	12, 000

Source Bureau of Education, Department of the Interior.



## No. 133.—NURSE TRAINING, COMMERCIAL, SUMMER, AND REFORM SCHOOLS

NOTE.—Summer schools are chiefly those run by universities, colleges, and normal schools

State	Nurse-training schools, 1927		Commercial schools, 1925		Summer schools, 1925		Reform schools, 1927	
	Schools	Students	Schools	Students	Schools	Students	Schools	Students
<b>Continental United States</b>	<b>1, 722</b>	<b>75, 638</b>	<b>739</b>	<b>188, 363</b>	<b>548</b>	<b>350, 076</b>	<b>158</b>	<b>84, 317</b>
Alabama	30	827	8	1, 599	13	8, 963	3	1, 374
Arizona	3	136	4	588	2	859	1	166
Arkansas	18	399	7	967	4	2, 057	1	325
California	54	3, 549	45	11, 294	15	19, 070	6	2, 588
Colorado	21	953	13	4, 861	9	8, 607	2	712
Connecticut	26	1, 441	20	4, 468	2	184	2	872
Delaware	4	132	2	126	1	389	3	275
District of Columbia	11	848	4	2, 979	3	1, 824	2	950
Florida	19	552	8	2, 352	2	1, 516	1	856
Georgia	32	962	8	2, 255	13	5, 594	3	442
Idaho	10	202	3	286	6	1, 723	1	442
Illinois	118	5, 807	57	18, 294	34	23, 090	7	7, 124
Indiana	32	1, 699	31	7, 103	20	11, 503	3	2, 481
Iowa	50	2, 079	22	5, 111	16	7, 282	4	1, 183
Kansas	54	1, 220	18	4, 628	17	11, 298	3	1, 560
Kentucky	25	766	13	3, 205	10	3, 816	2	1, 581
Louisiana	14	719	9	3, 254	7	6, 298	1	324
Maine	29	607	8	707	6	1, 619	3	530
Maryland	27	1, 506	5	1, 297	8	2, 018	6	2, 064
Massachusetts	90	4, 982	29	6, 991	15	7, 512	9	2, 824
Michigan	42	2, 336	16	3, 041	11	11, 768	5	2, 637
Minnesota	59	3, 723	17	4, 833	9	8, 269	6	1, 925
Mississippi	31	573	6	412	6	1, 691	1	372
Missouri	31	1, 560	16	7, 576	19	12, 340	3	1, 212
Montana	14	432	6	2, 181	3	1, 824	2	338
Nebraska	23	1, 083	9	1, 617	14	8, 872	3	695
Nevada					1	165	1	46
New Hampshire	21	449	2	245	3	610	1	238
New Jersey	49	2, 091	23	5, 700	3	1, 627	6	3, 597
New Mexico	2	28	2	478	6	1, 167	1	44
New York	130	8, 347	83	20, 740	28	32, 518	14	9, 923
North Carolina	47	1, 208	5	560	20	10, 842	1	606
North Dakota	15	593	4	234	8	3, 814	1	250
Ohio	75	3, 806	44	12, 468	30	16, 725	7	9, 851
Oklahoma	30	651	16	4, 986	14	15, 311	3	743
Oregon	16	565	6	2, 597	6	3, 028	2	389
Pennsylvania	160	7, 966	53	14, 092	39	21, 662	9	6, 148
Rhode Island	10	847	7	801	2	449	2	513
South Carolina	24	552	6	468	4	2, 556	3	575
South Dakota	18	462	4	986	11	3, 232	1	213
Tennessee	30	1, 113	15	2, 244	10	8, 386	5	1, 145
Texas	65	2, 156	30	7, 505	43	21, 751	2	8, 573
Utah	5	374	3	1, 399	3	2, 295		
Vermont	12	308			3	1, 072	1	348
Virginia	42	1, 813	8	1, 464	14	9, 595	4	915
Washington	23	1, 070	15	4, 690	8	5, 820	5	1, 721
West Virginia	36	702	12	2, 004	13	6, 200	2	938
Wisconsin	38	1, 766	16	2, 621	13	9, 865	2	967
Wyoming	7	118	1	56	1	1, 400	2	122
<b>OUTLYING AREAS</b>								
Hawai Territory			3	322	1	655		
Philippine Islands	7	420	5	1, 603				
Porto Rico	2	68	7	551	1	1, 111	1	327

Source Bureau of Education, Department of the Interior.

## No. 134.—SCHOOLS FOR BLIND, DEAF, AND FEEBLE-MINDED, 1927

NOTE.—Philippine Islands has 1 school for the blind with 21 pupils and 1 State school for the deaf with 101 pupils and Porto Rico has 1 school for the blind with 28 pupils and 1 private school for the deaf with 48 pupils

State	Schools for the blind		Schools for the deaf						Institutions for the feeble-minded					
			State schools		Public day schools		Private schools		State institutions		Public day schools <sup>1</sup>		Private institutions	
	Schools	Pupils	Schools	Pupils	Schools	Pupils	Schools	Pupils	Schools	Inmates	Cities reporting schools	Pupils	Schools	Inmates
<b>Continental United States</b> -----	<b>78</b>	<b>6,035</b>	<b>68</b>	<b>13,033</b>	<b>83</b>	<b>3,515</b>	<b>15</b>	<b>885</b>	<b>51</b>	<b>49,791</b>	<b>218</b>	<b>51,814</b>	<b>34</b>	<b>2,416</b>
Alabama-----	2	146	2	342	---	---	---	---	---	---	---	---	---	---
Arizona-----	1	2	1	32	---	---	---	---	---	---	---	---	---	---
Arkansas-----	2	153	2	346	---	---	---	---	---	---	---	---	---	---
California-----	2	152	1	193	7	383	1	30	1	321	5	1,890	1	16
Colorado-----	1	71	1	167	---	---	---	---	2	336	1	626	1	14
Connecticut-----	1	66	2	318	---	---	---	---	1	761	7	762	---	---
Delaware-----	---	---	---	---	---	---	---	---	1	112	---	---	---	---
District of Columbia-----	---	---	1	135	---	---	---	---	---	---	1	711	---	---
Florida-----	2	71	2	214	---	---	---	---	1	415	---	---	---	---
Georgia-----	1	106	2	297	1	4	1	12	1	92	1	461	---	---
Idaho-----	1	21	1	68	---	---	---	---	1	349	---	---	---	---
Illinois-----	2	300	1	411	4	464	1	118	2	5,672	6	2,884	2	86
Indiana-----	1	147	1	396	1	9	---	---	1	1,625	4	330	---	---
Iowa-----	1	114	1	309	1	69	---	---	1	1,769	10	1,320	1	53
Kansas-----	1	130	1	249	2	25	---	---	1	593	4	292	---	---
Kentucky-----	2	112	2	356	---	---	---	---	1	520	1	360	1	113
Louisiana-----	2	79	1	165	1	11	1	67	1	262	1	118	---	---
Maine-----	1	32	1	109	---	---	---	---	1	694	1	40	---	---
Maryland-----	2	114	2	219	1	82	2	58	---	---	---	---	---	---
Massachusetts-----	2	309	3	433	2	169	---	---	2	3,364	21	3,667	3	145
Michigan-----	2	197	1	364	9	386	1	34	1	2,751	13	5,858	3	78
Minnesota-----	4	283	1	258	4	150	---	---	1	2,396	28	2,250	1	38
Mississippi-----	1	75	2	226	---	---	---	---	---	---	---	---	---	---
Missouri-----	1	113	1	311	2	109	2	192	1	577	3	718	2	32
Montana-----	---	---	1	86	---	---	---	---	1	284	2	99	---	---
Nebraska-----	1	55	1	195	1	22	---	---	1	941	2	293	---	---
New Hampshire-----	---	---	---	---	1	4	---	---	1	487	1	19	---	---
New Jersey-----	3	88	1	275	3	125	---	---	3	2,392	27	3,264	5	742
New Mexico-----	1	84	---	---	---	---	---	---	---	---	---	---	---	---
New York-----	6	451	7	1,639	4	531	---	---	5	10,080	15	10,898	4	138
North Carolina-----	2	219	2	416	---	---	---	---	1	503	1	345	---	---
North Dakota-----	1	35	1	124	---	---	---	---	1	518	---	---	---	---
Ohio-----	7	478	1	473	7	286	1	97	1	2,524	15	3,548	1	86
Oklahoma-----	1	143	1	345	---	---	1	13	1	346	---	---	---	---
Oregon-----	1	48	1	116	1	38	---	---	1	291	1	232	---	---
Pennsylvania-----	3	432	4	1,051	2	137	3	183	3	4,402	18	7,446	5	274
Rhode Island-----	---	---	1	102	---	---	---	---	1	433	3	535	---	---
South Carolina-----	2	95	2	259	---	---	---	---	1	342	---	---	---	---
South Dakota-----	1	39	1	105	---	---	---	---	1	426	---	---	---	---
Tennessee-----	2	236	2	292	---	---	---	---	---	---	1	105	1	22
Texas-----	2	339	2	629	3	51	---	---	1	241	2	162	---	---
Utah-----	1	34	1	113	---	---	---	---	1	132	1	23	---	---
Vermont-----	---	---	1	45	---	---	---	---	1	260	---	---	---	---
Virginia-----	2	99	2	253	---	---	---	---	1	575	3	585	1	104
Washington-----	3	94	1	131	4	123	---	---	1	315	4	1,326	---	---
West Virginia-----	1	109	1	262	---	---	---	---	---	---	1	13	---	---
Wisconsin-----	3	164	1	194	18	337	1	81	2	1,529	14	724	2	525
Wyoming-----	---	---	---	---	---	---	---	---	1	160	---	---	---	---

<sup>1</sup> Backward and subnormal pupils.

Source: Bureau of Education, Department of the Interior.

# No. 135.—SCHOOLS FOR BLIND, DEAF, AND FEEBLE-MINDED: CONTINENTAL UNITED STATES

Kind of school	Number of schools			Number of teachers				Number of pupils			
	1910	1922	1927	1910	1922	1927		1910	1922	1927	
						Male	Female			Male	Female
Schools for the blind.....	48	63	78	531	721	220	633	4,323	4,915	3,321	2,714
Schools for the deaf, total.....	130	154	166	1,498	1,801	443	1,840	12,546	14,328	9,226	8,207
State.....	57	61	68	1,208	1,414	402	1,310	10,399	10,738	7,017	6,016
City day schools.....	53	74	83	189	351	19	398	1,508	2,911	1,776	1,739
Private.....	20	19	15	101	136	22	132	639	679	433	452
Schools for the feeble-minded and subnormal, total.....	41	214	303	340	1,956	316	3,177	17,570	62,214	58,966	45,055
State.....	25	51	51	270	492	116	464	16,678	38,761	24,355	25,436
City day schools.....	133	218	218	1,821	1,821	175	2,543	22,067	22,067	33,214	18,600
Private.....	16	30	34	70	143	25	170	892	1,386	1,397	1,019

Source Bureau of Education, Department of the Interior

# No. 136.—VOCATIONAL EDUCATION: TEACHERS AND PUPILS IN VOCATIONAL SCHOOLS AND TEACHER-TRAINING COURSES

NOTE.—See headnote, Table 137. Data for 1926, 1927, and 1928 include Hawaii

Class of school or course	Teachers					Pupils				
	1920	1924	1926	1927	1928	1920	1924	1926	1927	1928
<b>VOCATIONAL SCHOOLS</b>										
Total, all classes.....	7,669	16,192	18,717	18,900	20,779	265,058	652,594	753,418	784,966	858,456
Male.....	4,992	9,898	11,808	12,259	13,638	163,228	349,224	406,732	450,026	492,458
Female.....	2,677	6,294	6,909	6,641	7,121	101,830	303,370	346,686	334,960	365,998
Evening.....	2,565	6,778	6,979	7,380	8,065	73,122	193,274	210,238	212,377	247,968
Part time.....	1,773	3,530	4,316	4,131	4,590	122,974	321,191	369,186	383,144	398,917
All day.....	3,331	5,766	7,143	7,255	7,824	68,962	134,873	168,852	183,767	203,261
Short-unit course.....	-----	118	279	134	800	-----	3,256	5,142	5,693	8,310
Agricultural.....	1,570	3,454	4,858	4,804	5,434	31,301	85,984	109,528	124,937	144,901
Male.....	1,568	3,453	4,838	4,801	5,425	29,351	81,366	102,935	119,161	139,359
Female.....	2	1	20	3	9	1,950	4,618	6,593	5,776	5,542
Evening.....	-----	591	920	878	1,007	-----	15,227	19,239	26,227	35,192
Part time.....	-----	55	208	131	274	-----	2,143	2,716	3,622	4,458
All day.....	1,570	2,690	3,451	3,611	3,853	31,301	65,358	82,481	89,390	96,941
Short-unit course.....	-----	118	279	134	300	-----	3,256	5,142	5,693	8,310
Trade and industrial.....	4,462	8,328	9,133	9,553	10,536	184,819	409,843	466,685	495,629	537,611
Male.....	3,408	6,412	6,929	7,423	8,192	133,872	267,814	303,755	330,508	352,643
Female.....	1,054	1,916	2,254	2,130	2,344	50,947	142,029	162,930	165,121	184,968
Evening.....	1,779	3,386	3,227	3,813	4,146	84,354	84,973	99,694	97,574	114,629
Part time, total.....	1,636	3,199	3,819	3,677	4,087	115,241	291,608	332,192	347,939	365,534
Trade extension.....	350	773	1,137	763	1,300	17,159	35,475	41,834	39,406	42,531
General continuation.....	1,286	2,426	2,682	2,714	2,787	98,082	256,133	290,358	308,533	323,012
All day.....	1,047	1,743	2,137	2,063	2,303	21,224	33,262	44,799	50,116	57,439
Home economics.....	1,637	4,410	4,676	4,543	4,809	48,938	156,767	177,205	164,420	175,944
Male.....	16	33	41	32	41	5	44	42	357	456
Female.....	1,621	4,377	4,635	4,511	4,768	48,933	156,723	177,163	164,063	175,488
Evening.....	786	2,801	2,832	2,689	2,912	24,768	93,074	101,305	88,576	98,147
Part time.....	137	276	289	273	229	7,733	27,440	34,278	31,583	28,916
All day.....	714	1,333	1,555	1,581	1,668	16,437	36,253	41,622	44,261	48,881
<b>TEACHER-TRAINING COURSES</b>										
Total, all classes.....	1,082	1,021	853	930	773	12,456	18,686	19,806	18,199	17,672
Male.....	657	602	528	590	466	6,985	11,424	11,596	10,565	9,498
Female.....	425	419	325	340	307	5,471	7,262	8,210	7,634	8,074
In agriculture.....	293	241	200	208	162	2,310	4,747	3,927	3,187	2,394
Trade and industry.....	359	388	315	344	289	6,150	8,320	9,651	9,050	9,390
Home economics.....	414	392	338	378	324	3,652	5,619	6,228	5,962	5,848
Other and not specified.....	16	-----	-----	-----	-----	344	-----	-----	-----	-----

Source: Federal Board for Vocational Education

# No. 137.—VOCATIONAL EDUCATION: PUPILS ENROLLED IN VOCATIONAL COURSES

Note.—Institutions federally aided are established under the act known as the Smith-Hughes Act, or the national vocational education act. It provides for a continuing appropriation from Federal funds for the purpose of cooperating with the States in the establishment and maintenance of programs for vocational education of lower than college grades, for the preparation of teachers to instruct under these plans, and for the administration of these Federal funds by the Federal Board for Vocational Education

Division and State	Federally aided										State aided, 1928
	Total number				1928						
	1920	1924	1927	1928	Male	Female	Agriculture	Trade and industry	Home economics		
United States <sup>1</sup>	265, 058	652, 594	784, 986	858, 456	492, 458	365, 998	144, 901	537, 611	175, 944	140, 575	
New England	28, 753	71, 121	67, 882	68, 417	34, 342	34, 075	2, 390	46, 345	19, 682	79	
Maine	1, 064	1, 548	1, 731	1, 535	775	760	499	276	760	-----	
New Hampshire	507	463	543	717	677	40	351	366	-----	-----	
Vermont	423	538	505	609	501	108	187	323	99	-----	
Massachusetts	23, 086	63, 398	56, 371	57, 172	26, 054	31, 118	709	39, 239	17, 224	79	
Rhode Island	930	2, 612	3, 619	3, 382	2, 112	1, 270	355	1, 985	1, 042	-----	
Connecticut	2, 743	2, 262	5, 093	5, 002	4, 223	779	289	4, 156	557	-----	
Middle Atlantic	78, 661	188, 764	274, 314	294, 684	180, 985	133, 679	5, 997	271, 708	16, 959	87, 150	
New York	18, 185	94, 919	172, 721	182, 850	102, 475	80, 375	2, 351	180, 499	62, 169	-----	
New Jersey	8, 311	26, 268	25, 866	37, 405	23, 241	14, 164	973	31, 679	4, 753	24, 981	
Pennsylvania	52, 165	67, 577	75, 727	74, 409	35, 269	39, 140	2, 673	59, 530	12, 206	-----	
East North Central	69, 293	175, 271	161, 094	172, 602	96, 791	75, 811	28, 135	90, 786	53, 631	27, 693	
Ohio	10, 793	28, 341	34, 472	39, 953	25, 205	14, 748	8, 435	20, 763	10, 755	-----	
Indiana	13, 625	19, 255	19, 412	19, 758	10, 533	9, 225	3, 483	7, 868	8, 407	3, 572	
Illinois	15, 179	45, 540	44, 836	42, 263	24, 711	17, 552	6, 151	26, 344	9, 708	41	
Michigan	10, 889	36, 645	40, 386	42, 815	25, 220	17, 595	7, 309	26, 798	8, 708	-----	
Wisconsin	18, 817	45, 490	21, 988	27, 813	11, 122	16, 691	2, 757	9, 013	16, 043	24, 070	
West North Central	25, 143	51, 392	47, 885	53, 087	30, 751	22, 318	15, 732	20, 440	16, 895	2, 866	
Minnesota	3, 466	8, 925	8, 023	8, 939	5, 241	3, 698	2, 234	4, 344	2, 361	-----	
Iowa	4, 171	5, 995	8, 536	8, 457	6, 059	2, 428	3, 823	3, 585	1, 079	-----	
Missouri	12, 975	19, 460	12, 635	14, 703	7, 472	6, 961	3, 377	5, 921	5, 405	-----	
North Dakota	1, 580	1, 352	2, 620	2, 334	1, 181	1, 153	989	254	1, 091	-----	
South Dakota	420	1, 001	1, 211	1, 278	642	636	547	100	631	1, 340	
Nebraska	789	9, 030	9, 835	11, 682	4, 985	6, 697	2, 242	3, 667	5, 773	21	
Kansas	1, 742	5, 629	5, 025	5, 644	4, 901	743	2, 520	2, 569	555	1, 505	
South Atlantic	15, 843	46, 481	71, 850	81, 679	57, 592	24, 087	35, 863	28, 429	17, 387	17, 121	
Delaware	1, 130	1, 775	1, 922	2, 156	1, 267	889	327	1, 264	565	-----	
Maryland	1, 430	3, 066	5, 297	5, 806	3, 772	2, 034	998	3, 129	1, 679	-----	
Virginia	3, 152	5, 564	11, 160	12, 020	9, 873	2, 147	5, 848	4, 977	1, 195	3, 121	
West Virginia	1, 546	2, 918	3, 040	3, 326	2, 379	947	941	1, 543	842	38	
North Carolina	1, 369	11, 838	16, 834	19, 983	13, 562	6, 421	9, 279	5, 455	5, 249	9, 800	
South Carolina	1, 802	5, 670	10, 322	14, 230	12, 871	1, 359	9, 820	3, 269	1, 141	46	
Georgia	3, 756	11, 633	16, 897	17, 468	10, 027	7, 441	6, 900	5, 768	4, 800	4, 116	
Florida	1, 158	4, 077	6, 378	6, 690	3, 841	2, 849	1, 750	3, 024	1, 916	-----	
East South Central	8, 346	23, 850	31, 504	33, 596	25, 974	7, 622	19, 448	8, 689	5, 459	2, 709	
Kentucky	2, 666	3, 748	5, 700	6, 087	4, 203	1, 884	3, 059	1, 446	1, 582	-----	
Tennessee	1, 998	9, 480	11, 298	10, 905	7, 538	3, 367	5, 467	3, 152	2, 286	-----	
Alabama	1, 838	6, 694	9, 493	9, 631	8, 256	1, 375	5, 561	2, 945	1, 125	-----	
Mississippi	1, 844	3, 988	5, 013	6, 973	5, 977	996	5, 361	1, 146	466	2, 709	
West South Central	7, 084	31, 608	41, 634	52, 105	28, 158	23, 947	19, 334	13, 773	18, 998	2, 702	
Arkansas	2, 103	4, 100	5, 904	6, 850	5, 609	1, 241	5, 304	843	703	1, 103	
Louisiana	1, 280	6, 752	6, 415	8, 007	4, 774	3, 253	2, 285	3, 995	1, 727	1, 052	
Oklahoma	883	5, 015	14, 233	13, 129	6, 386	6, 743	4, 123	5, 669	5, 347	428	
Texas	2, 818	15, 741	15, 082	24, 119	11, 889	12, 730	7, 622	5, 276	11, 221	119	
Mountain	16, 323	19, 927	32, 435	32, 923	21, 854	11, 069	10, 147	14, 468	8, 308	285	
Montana	855	1, 098	1, 252	1, 390	1, 171	219	790	381	219	-----	
Idaho	1, 301	868	2, 202	2, 897	2, 012	885	1, 371	682	844	16	
Wyoming	645	2, 431	3, 033	3, 700	2, 810	890	1, 077	2, 031	592	-----	
Colorado	3, 951	4, 683	13, 578	11, 677	8, 513	3, 164	2, 979	6, 629	2, 069	-----	
New Mexico	751	1, 808	2, 264	2, 196	1, 720	476	563	1, 247	386	24	
Arizona	2, 095	3, 830	2, 901	3, 159	1, 987	1, 172	1, 593	825	741	-----	
Utah	6, 472	4, 896	6, 016	7, 021	2, 933	4, 088	1, 571	2, 118	3, 332	-----	
Nevada	253	313	1, 189	883	708	175	203	555	125	-----	
Pacific	15, 612	44, 180	55, 206	67, 318	35, 487	31, 851	7, 589	42, 613	17, 136	-----	
Washington	1, 408	4, 893	7, 064	7, 768	5, 497	2, 271	1, 705	4, 903	1, 100	-----	
Oregon	3, 394	3, 377	3, 359	4, 177	2, 490	1, 687	1, 221	1, 822	1, 134	-----	
California	10, 810	35, 910	44, 783	55, 373	27, 480	27, 993	4, 643	35, 828	14, 902	-----	
Hawai	-----	-----	1, 202	2, 085	544	1, 541	286	360	1, 439	-----	

<sup>1</sup> Includes Hawaii in 1927 and 1928.

Source: Federal Board for Vocational Education.

# No. 138.—VOCATIONAL EDUCATION: PUPILS ENROLLED IN VOCATIONAL TEACHER-TRAINING COURSES

NOTE.—Data relate only to institutions federally aided under vocational education act

Division and State	Total number					1928				
	1920	1924	1926	1927	1928	Male	Female	Agriculture	Trade and industry	Home economics
<b>United States<sup>1</sup></b>	<b>12,456</b>	<b>18,686</b>	<b>19,806</b>	<b>18,199</b>	<b>17,572</b>	<b>9,438</b>	<b>8,074</b>	<b>2,394</b>	<b>9,330</b>	<b>5,848</b>
<b>New England</b> .....	<b>1,228</b>	<b>1,375</b>	<b>1,263</b>	<b>1,506</b>	<b>1,152</b>	<b>664</b>	<b>488</b>	<b>171</b>	<b>526</b>	<b>455</b>
Maine.....	82	53	54	33	91	74	17	9	65	17
New Hampshire.....	20	58	20	36	97	35	62	5	30	62
Vermont.....	73	( <sup>2</sup> )	7	109	4	4		( <sup>2</sup> )	4	( <sup>2</sup> )
Massachusetts.....	749	817	779	860	719	415	304	132	316	271
Rhode Island.....	238	286	254	274	135	67	68	16	51	68
Connecticut.....	66	161	149	194	106	69	37	9	60	37
<b>Middle Atlantic</b> .....	<b>1,620</b>	<b>3,007</b>	<b>4,064</b>	<b>4,519</b>	<b>4,343</b>	<b>2,668</b>	<b>1,675</b>	<b>173</b>	<b>3,107</b>	<b>1,063</b>
New York.....	1,091	1,704	2,043	2,191	1,811	998	813		1,159	622
New Jersey.....	125	167	538	512	591	363	228	43	430	118
Pennsylvania.....	404	1,136	1,483	1,816	1,941	1,307	634	130	1,488	323
<b>East North Central</b> .....	<b>2,770</b>	<b>4,420</b>	<b>4,055</b>	<b>2,971</b>	<b>3,032</b>	<b>1,641</b>	<b>1,391</b>	<b>187</b>	<b>2,250</b>	<b>595</b>
Ohio.....	1,286	794	1,481	1,683	1,594	397	197		509	85
Indiana.....	634	619	457	748	689	424	265	52	372	265
Illinois.....	385	859	838	908	1,058	454	604	78	909	71
Michigan.....	186	1,359	808	496	553	291	262	47	395	111
Wisconsin.....	279	780	471	136	138	75	63	10	65	63
<b>West North Central</b> .....	<b>1,286</b>	<b>2,786</b>	<b>2,846</b>	<b>2,363</b>	<b>2,119</b>	<b>857</b>	<b>1,262</b>	<b>334</b>	<b>817</b>	<b>968</b>
Minnesota.....	386	269	718	623	452	180	272	96	222	134
Iowa.....	181	1,424	1,019	753	445	243	202	37	305	103
Missouri.....	242	466	508	157	381	219	162	56	208	117
North Dakota.....	131	93	117	142	197	31	166	31		166
South Dakota.....	71	197	122	185	183	24	159	18	6	159
Nebraska.....	195	235	172	241	224	97	127	33	76	115
Kansas.....	100	102	190	262	237	63	174	63	( <sup>2</sup> )	174
<b>South Atlantic</b> .....	<b>1,029</b>	<b>2,020</b>	<b>3,019</b>	<b>1,939</b>	<b>1,847</b>	<b>1,008</b>	<b>839</b>	<b>431</b>	<b>768</b>	<b>648</b>
Delaware.....	51	45	50	62	72	50	22	20	36	16
Maryland.....	64	150	142	282	349	272	77	25	304	20
Virginia.....	269	477	959	419	522	214	308	173	69	290
West Virginia.....	141	294	507	350	277	191	86	126	114	37
North Carolina.....	205	260	231	140	254	74	180	59	15	180
South Carolina.....	92	186	179	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Georgia.....	169	526	871	594	281	155	126		208	73
Florida.....	48	82	80	92	92	52	40	28	32	32
<b>East South Central</b> .....	<b>755</b>	<b>663</b>	<b>739</b>	<b>773</b>	<b>1,037</b>	<b>622</b>	<b>415</b>	<b>392</b>	<b>271</b>	<b>374</b>
Kentucky.....	146	236	107	( <sup>2</sup> )	228	171	57	92	79	57
Tennessee.....	31	67	159	193	191	106	85	32	102	57
Alabama.....	310	192	319	362	348	217	131	164	54	130
Mississippi.....	268	168	154	218	270	128	142	104	36	130
<b>West South Central</b> .....	<b>955</b>	<b>1,490</b>	<b>897</b>	<b>1,344</b>	<b>1,530</b>	<b>840</b>	<b>690</b>	<b>302</b>	<b>614</b>	<b>614</b>
Arkansas.....	161	154	85	80	62	27	35	12	22	28
Louisiana.....	293	145	120	265	134	63	71	63	11	60
Oklahoma.....	141	531	315	492	318	156	162	69	87	162
Texas.....	450	660	377	507	1,016	594	422	158	494	364
<b>Mountain</b> .....	<b>936</b>	<b>1,768</b>	<b>1,939</b>	<b>1,639</b>	<b>1,122</b>	<b>634</b>	<b>488</b>	<b>291</b>	<b>347</b>	<b>484</b>
Montana.....	81	134	89	59	61	26	35	26	( <sup>2</sup> )	35
Idaho.....	64	80	105	123	133	74	59	43	30	60
Wyoming.....	24	122	132	113	134	109	25	44	65	25
Colorado.....	330	908	815	654	472	290	182	114	181	177
New Mexico.....	206	( <sup>2</sup> )	67	49	14	7	7			7
Arizona.....	24	25	480	142	108	50	58	36	14	58
Utah.....	203	469	239	474	160	51	109	15	36	109
Nevada.....	4	30	12	25	40	27	13	6	21	13
<b>Pacific</b> .....	<b>1,877</b>	<b>1,157</b>	<b>922</b>	<b>1,051</b>	<b>1,331</b>	<b>554</b>	<b>777</b>	<b>113</b>	<b>616</b>	<b>602</b>
Washington.....	130	55	117	208	254	102	132	15	205	64
Oregon.....	127	215	94	161	241	118	123	41	79	121
California.....	1,620	887	711	682	806	334	472	57	332	417
<b>Hawaii</b> .....			62	94	59	10	49		14	45

<sup>1</sup> Includes Hawaii in 1926, 1927, and 1928      <sup>2</sup> No report

<sup>3</sup> Not including 677 enrolled in foreman instructor training      In other years, enrollment in this course is included in figures for the State.

Source Federal Board for Vocational Education

# No. 139.—VOCATIONAL EDUCATION: EXPENDITURES UNDER THE VOCATIONAL EDUCATION ACT, FOR YEARS ENDED JUNE 30

## EXPENDITURES FOR ALL SCHOOLS, EXCEPT TEACHER TRAINING

Classification of expenditure	1920	1922	1924	1926	1927	1928
	Dollars	Dollars	Dollars	Dollars	Dollars	Dollars
Total.....	6,888,500	12,594,781	16,551,548	20,952,690	22,146,188	23,350,702
From Federal money.....	1,745,298	2,852,268	3,817,954	5,560,290	5,706,700	5,791,067
From State money.....	2,008,306	3,599,045	4,226,669	5,173,761	5,486,707	5,992,020
From local money.....	3,134,896	6,143,468	8,506,926	10,218,639	10,952,781	11,567,615
Agricultural schools.....	2,437,285	4,058,440	5,251,144	7,164,460	7,469,296	7,608,914
From Federal money.....	889,886	1,435,475	1,896,466	2,656,886	2,794,600	2,844,464
From State money.....	678,824	1,039,488	1,204,644	1,571,427	1,516,058	1,539,662
From local money.....	868,575	1,583,477	2,150,094	2,936,147	3,158,638	3,224,788
Trade or industrial schools.....	2,408,919	3,843,561	5,064,656	6,194,107	6,463,109	7,193,998
From Federal money.....	509,385	782,500	1,042,217	1,512,544	1,533,924	1,599,063
From State money.....	786,568	1,124,808	1,359,968	1,580,116	1,758,772	2,009,178
From local money.....	1,112,966	1,936,253	2,662,470	3,101,447	3,170,413	3,585,757
Home economics schools.....	1,054,489	2,118,563	2,742,396	3,137,394	3,337,828	3,721,132
From Federal money.....	155,768	245,886	331,026	499,631	485,614	492,158
From State money.....	329,634	671,383	740,318	810,626	907,902	1,073,784
From local money.....	569,087	1,201,294	1,671,051	1,827,137	1,944,412	2,155,190
Part-time general continuation schools.....	987,870	2,574,217	3,493,353	4,456,729	4,875,955	4,826,658
From Federal money.....	190,269	388,407	486,304	891,229	892,662	855,382
From State money.....	213,280	763,366	921,739	1,211,592	1,303,975	1,369,366
From local money.....	584,268	1,422,444	2,023,311	2,353,908	2,679,318	2,601,880

## EXPENDITURES FOR TEACHER-TRAINING INSTITUTIONS

Total.....	1,646,663	2,218,208	2,291,251	2,223,010	2,370,438	2,358,921
From Federal money.....	731,204	997,851	1,013,926	988,367	1,016,010	1,030,323
From State money.....	661,979	924,804	948,567	975,321	1,013,664	1,030,800
From local money.....	253,480	295,463	328,758	265,322	340,764	297,798
Training teachers of agriculture.....	556,580	740,051	756,354	797,143	811,887	811,765
From Federal money.....	250,835	337,590	342,358	346,112	348,007	352,216
From State money.....	232,013	309,105	313,981	354,833	360,814	359,091
From local money.....	73,732	93,356	100,015	6,198	103,066	100,458
Training teachers of trade or industrial subjects.....	490,655	699,721	716,232	706,217	740,988	743,109
From Federal money.....	226,765	323,515	322,814	326,255	335,895	337,801
From State money.....	210,199	316,548	319,779	322,664	337,054	349,499
From local money.....	53,691	59,658	73,641	57,298	68,039	55,719
Training teachers of home economics.....	599,428	778,436	818,663	725,650	817,563	804,047
From Federal money.....	253,604	336,746	348,754	316,000	332,108	340,216
From State money.....	219,767	299,241	14,807	297,824	316,296	322,300
From local money.....	126,057	142,449	155,102	111,826	169,159	141,531

## TOTAL EXPENDITURES FROM FEDERAL MONEY, BY STATES

State	1920	1926	1928	State	1920	1926	1928
	Dollars	Dollars	Dollars		Dollars	Dollars	Dollars
Total.....	2,476,603	6,548,657	6,821,890	Nebraska.....	33,292	77,068	85,769
Alabama.....	54,672	139,762	151,501	Nevada.....	13,849	17,261	21,222
Arizona.....	18,146	32,643	32,643	New Hampshire.....	10,913	27,533	26,450
Arkansas.....	43,615	106,894	116,899	New Jersey.....	63,564	195,361	204,215
California.....	70,477	220,625	226,278	New Mexico.....	19,144	25,410	28,839
Colorado.....	23,001	62,188	63,571	New York.....	191,061	658,362	667,616
Connecticut.....	39,028	83,391	84,975	North Carolina.....	45,185	162,292	172,141
Delaware.....	17,612	26,001	27,019	North Dakota.....	20,211	45,707	52,603
Florida.....	24,187	56,751	64,530	Ohio.....	131,378	371,295	373,915
Georgia.....	69,412	193,531	194,569	Oklahoma.....	39,391	128,072	134,373
Idaho.....	20,181	32,832	34,495	Oregon.....	24,671	53,333	54,634
Illinois.....	159,938	405,352	408,940	Pennsylvania.....	166,604	492,711	505,997
Indiana.....	74,206	194,897	193,348	Rhode Island.....	20,728	45,372	47,350
Iowa.....	54,940	136,137	151,095	South Carolina.....	44,252	112,494	113,474
Kansas.....	35,506	89,982	84,333	South Dakota.....	10,872	41,892	43,699
Kentucky.....	51,413	119,706	149,823	Tennessee.....	45,477	157,018	156,850
Louisiana.....	43,390	95,529	109,879	Texas.....	90,740	292,248	303,296
Maine.....	19,672	28,554	34,817	Utah.....	19,962	35,652	35,652
Maryland.....	25,664	71,960	73,970	Vermont.....	17,602	22,247	27,638
Massachusetts.....	100,881	246,058	246,550	Virginia.....	62,751	150,204	152,780
Michigan.....	82,749	222,788	241,153	Washington.....	34,947	81,230	88,137
Minnesota.....	65,322	141,439	148,190	West Virginia.....	28,509	66,062	72,140
Mississippi.....	49,893	120,871	120,871	Wisconsin.....	60,966	166,238	175,057
Missouri.....	74,626	222,281	225,004	Wyoming.....	13,383	26,862	29,168
Montana.....	18,990	37,488	37,197	Hawaii.....		15,521	27,465

Source: Federal Board for Vocational Education.

# No. 140.—VOCATIONAL REHABILITATION OF PERSONS DISABLED IN INDUSTRY OR OTHERWISE: YEARS ENDED JUNE 30

NOTE.—Relates only to cases aided by Federal funds. The total expenditure in 1928 (fiscal year) comprised: Federal funds, \$650,770; State and private funds, \$884,062

State	Number rehabilitated						Live cases on roll June 30					
	1922	1924	1925	1926	1927	1928	1922	1924	1925	1926	1927	1928
Total.....	1,890	5,594	5,825	5,804	5,092	5,012	8,147	13,044	12,727	13,808	16,148	116,393
Alabama.....	11	113	132	132	136	129	152	383	574	608	832	1,124
Arizona.....	-----	10	9	12	19	41	-----	17	16	18	26	40
Arkansas <sup>1</sup> .....	-----	3	3	19	22	26	-----	6	10	162	214	320
California.....	32	275	102	227	238	207	506	424	517	630	675	738
Colorado <sup>3</sup> .....	-----	-----	-----	-----	10	7	-----	-----	-----	2	36	44
Florida <sup>4</sup> .....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	204
Georgia.....	16	65	59	51	69	86	118	267	229	287	376	403
Idaho.....	4	35	27	29	25	26	81	75	56	54	40	66
Illinois.....	7	319	185	472	417	469	144	859	961	729	688	600
Indiana.....	61	123	139	184	145	99	321	261	372	472	539	511
Iowa.....	8	101	94	79	41	61	72	741	681	532	386	293
Kentucky.....	-----	268	1	50	55	60	-----	48	132	244	409	422
Louisiana.....	31	13	51	56	64	71	43	56	74	79	116	191
Maine.....	12	15	9	19	20	11	71	74	100	112	115	156
Massachusetts.....	4	90	106	102	143	129	170	209	183	310	304	287
Michigan.....	34	286	315	321	282	305	398	746	696	1,027	847	801
Minnesota.....	119	210	208	212	139	157	432	420	344	309	414	334
Mississippi.....	27	177	190	232	159	142	554	744	593	515	610	679
Missouri.....	50	69	46	14	-----	-----	146	129	102	(5)	-----	-----
Montana.....	9	36	18	17	16	15	127	174	117	91	78	74
Nebraska.....	1	61	59	72	73	46	106	139	143	146	132	139
Nevada.....	11	8	20	14	15	7	19	37	26	30	9	22
New Jersey.....	181	942	1,441	702	711	594	189	131	603	334	635	717
New Mexico.....	3	4	8	9	12	10	40	40	25	91	67	62
New York.....	267	575	637	673	434	509	1,234	2,402	1,278	863	1,828	1,498
North Carolina.....	18	112	94	96	84	102	153	654	637	685	768	721
North Dakota.....	-----	7	9	10	25	25	-----	26	59	97	104	97
Ohio.....	258	615	692	551	561	555	832	988	884	872	832	652
Oklahoma <sup>5</sup> .....	-----	-----	-----	8	18	59	-----	-----	-----	277	763	1,184
Oregon <sup>2</sup> .....	-----	26	42	41	35	41	-----	70	30	42	102	76
Pennsylvania.....	406	415	475	453	490	435	888	800	867	1,302	1,577	1,302
Rhode Island.....	4	4	4	5	9	8	11	22	22	28	37	31
South Carolina <sup>4</sup> .....	-----	-----	-----	-----	-----	1	-----	-----	-----	-----	-----	69
South Dakota.....	5	17	15	17	14	14	92	154	172	114	121	114
Tennessee.....	26	51	79	193	178	166	247	387	616	893	685	729
Utah.....	1	33	35	38	35	34	66	60	51	70	80	73
Virginia.....	35	120	103	88	80	75	78	119	361	258	329	314
West Virginia.....	109	146	173	171	126	114	347	615	379	364	222	249
Wisconsin.....	138	235	235	227	181	174	487	754	805	909	1,112	899
Wyoming.....	2	15	10	8	6	2	23	13	12	30	40	158

<sup>1</sup> The status of these cases on June 30, 1928, was as follows: Eligible but not in process of rehabilitation, 5,862; in process of rehabilitation but not in training, 4,484; in school training, 4,475; in employment training, 584; all other, 988

<sup>2</sup> Cooperation with Federal Government began in fiscal year ended June 30, 1924

<sup>3</sup> Cooperation with Federal Government began in fiscal year ended June 30, 1926

<sup>4</sup> Cooperation with Federal Government began in fiscal year ended June 30, 1928

<sup>5</sup> Live roll not reported.

Source: Federal Board for Vocational Education.

## 6. PUBLIC LANDS AND NATIONAL PARKS

GENERAL NOTE.—An original entry is a first claim to receive a given tract of public land. Perfected entry of the claim is made after required lapse of time and compliance with other conditions.

### No. 141.—ACREAGE OF ENTRIES AND PATENTS OF PUBLIC LAND

Class	1927 <sup>1</sup>			1928 <sup>1</sup>		
	Original entries	Perfected entries	Patented <sup>2</sup>	Original entries	Perfected entries	Patented <sup>2</sup>
Total.....	3, 471, 743	2, 797, 038	4, 456, 893	3, 614, 518	1, 986, 697	2, 477, 867
Homesteads.....	3, 236, 704	2, 583, 627	3, 642, 257	3, 366, 816	1, 815, 549	1, 933, 068
Section 2289, Revised Statutes <sup>3</sup> .....	316, 145	199, 675	404, 015	325, 201	149, 719	224, 272
June 17, 1906 (reclamation).....	9, 955	7, 331	12, 399	24, 575	8, 660	8, 028
Apr 28, 1904 (Kinkaid).....	6, 224	7, 618	3, 194	6, 286	5, 707	2, 152
June 11, 1906 (forest).....	11, 295	23, 767	33, 833	9, 139	16, 469	21, 496
Feb. 19, 1909 (enlarged).....	294, 264	395, 153	570, 962	315, 070	236, 655	283, 200
June 9, 1916 (O & C land grant).....	27, 235	17, 987	-----	18, 753	13, 437	-----
Dec 29, 1916 (stock raising).....	2, 571, 646	1, 932, 096	2, 400, 605	2, 667, 392	1, 384, 902	1, 387, 278
Indian.....	-----	217, 248	-----	-----	-----	1, 642
Timber and stone.....	-----	24, 445	25, 456	-----	14, 591	17, 482
Coal land.....	-----	517	240	-----	80	317
Desert land.....	34, 856	55, 984	76, 158	39, 947	39, 642	43, 701
Mineral land.....	-----	37, 037	55, 430	-----	50, 600	52, 892
Public auction.....	-----	26, 589	39, 205	-----	17, 448	28, 459
State selection.....	176, 049	-----	-----	95, 254	-----	-----
Railroad selection.....	14, 092	-----	117, 920	106, 454	-----	84, 920
Miscellaneous.....	9, 982	68, 839	492, 226	6, 047	48, 787	317, 023

<sup>1</sup> Year ended June 30.

<sup>2</sup> Includes Indian lands.

<sup>3</sup> Original act.

### No. 142.—ORIGINAL ENTRIES OF PUBLIC AND INDIAN LAND: ACREAGE UNDER ALL ACTS, YEARS ENDED JUNE 30

Item and State	1911-1915, total	1916-1920, total	1921-1925, total	1926	1927	1928
Total.....	1 83,037, 850	73, 192, 850	1 40, 619, 290	1 3, 243, 446	1 3, 594, 838	1 3, 726, 421
Public land.....	1 78, 698, 382	68, 663, 397	1 39, 508, 619	1 3, 116, 858	1 3, 471, 743	1 3, 614, 518
Indian land.....	4, 338, 968	4, 529, 453	1, 110, 670	126, 588	123, 095	111, 903
All homesteads.....	1 66, 553, 270	61, 312, 782	1 36, 188, 601	1 3, 001, 403	1 3, 359, 182	1 3, 478, 219
Stock-raising homesteads.....	-----	1 14, 024, 083	26, 752, 562	2, 250, 485	2, 663, 799	2, 751, 213
Other entries.....	16, 484, 080	11, 880, 068	4, 430, 689	242, 043	235, 656	248, 202
Total acreage in—						
Alabama.....	261, 020	80, 228	34, 320	5, 517	4, 253	-----
Alaska.....	46, 006	99, 153	51, 332	5, 386	7, 314	5, 402
Arizona.....	2, 983, 329	6, 894, 068	3, 466, 675	170, 815	224, 466	372, 659
Arkansas.....	966, 135	612, 668	215, 396	34, 851	25, 136	23, 833
California.....	4, 754, 715	3, 117, 582	2, 621, 522	339, 837	337, 691	388, 974
Colorado.....	9, 183, 877	10, 108, 447	5, 084, 809	357, 464	426, 780	345, 925
Florida.....	561, 440	188, 097	171, 867	50, 660	14, 711	9, 699
Idaho.....	5, 173, 966	3, 971, 195	2, 082, 582	212, 092	213, 392	160, 958
Kansas.....	373, 343	436, 717	46, 015	-----	-----	-----
Louisiana.....	92, 634	67, 005	21, 702	2, 623	3, 109	-----
Michigan.....	79, 931	41, 020	21, 804	-----	-----	-----
Minnesota.....	1, 450, 591	783, 983	192, 433	17, 409	9, 708	15, 404
Mississippi.....	120, 674	63, 203	22, 758	-----	-----	-----
Missouri.....	51, 108	4, 789	160	-----	-----	-----
Montana.....	22, 638, 090	14, 785, 405	4, 903, 929	358, 384	363, 023	393, 860
Nebraska.....	5, 307, 451	494, 289	128, 302	8, 541	11, 911	19, 373
Nevada.....	1, 231, 945	905, 132	465, 749	114, 644	45, 845	65, 761
New Mexico.....	9, 889, 348	9, 381, 322	7, 140, 706	449, 841	595, 811	697, 619
North Dakota.....	2, 286, 245	987, 821	136, 312	19, 772	10, 596	13, 006
Oklahoma.....	412, 645	192, 220	87, 242	15, 360	10, 511	-----
Oregon.....	3, 598, 122	2, 688, 515	2, 140, 987	146, 473	220, 512	138, 373
South Dakota.....	3, 577, 067	4, 158, 533	1, 389, 637	67, 044	61, 874	60, 174
Utah.....	2, 069, 805	1, 698, 720	1, 633, 787	332, 895	282, 513	213, 082
Washington.....	1, 840, 663	1, 229, 018	842, 992	27, 363	19, 309	22, 847
Wisconsin.....	63, 916	21, 033	10, 712	-----	-----	-----
Wyoming.....	4, 023, 211	10, 182, 685	7, 704, 901	502, 985	701, 049	767, 704

<sup>1</sup> Figures include entries made at the General Land Office and discontinued offices.

<sup>2</sup> 1918-1920 only.

Source of Tables 141 and 142: General Land Office, Department of the Interior.



# No. 143.—HOMESTEADS: ACREAGE OF ENTRIES OF PUBLIC LAND, YEARS ENDED JUNE 30

Item and State	All homesteads						Stock raising only, 1928
	1911-1915, total	1916-1920, total	1921-1925, total	1926	1927	1928	
<b>Original entries, total</b>	<b>162, 214, 302</b>	<b>56, 783, 329</b>	<b>1 35, 079, 617</b>	<b>1 2, 874, 896</b>	<b>1 3, 236, 764</b>	<b>1 3, 366, 816</b>	<b>1 2, 667, 392</b>
Alabama	249, 902	79, 409	34, 139	5, 517	4, 253		
Alaska	25, 342	115, 138	51, 012	5, 387	7, 176	5, 402	
Arizona	1, 660, 665	1, 153, 864	1, 452, 551	143, 069	203, 925	302, 364	170, 600
Arkansas	949, 384	612, 668	215, 172	34, 851	25, 136	23, 833	480
California	2, 192, 577	2, 477, 967	2, 201, 327	303, 996	303, 501	331, 999	153, 270
Colorado	7, 740, 338	9, 166, 561	4, 368, 182	257, 967	327, 918	265, 890	221, 865
Florida	544, 376	187, 187	168, 086	50, 111	14, 671	9, 603	
Idaho	4, 160, 456	3, 285, 340	1, 842, 656	205, 433	196, 810	187, 599	135, 369
Kansas	355, 466	436, 088	46, 016				
Louisiana	85, 684	65, 117	14, 746	2, 623	3, 109		
Michigan	76, 741	41, 020	21, 804				
Minnesota	392, 598	96, 656	47, 147	13, 957	8, 161	15, 140	
Mississippi	119, 313	63, 203	22, 758				
Missouri	33, 605	4, 189	160				
Montana	19, 078, 299	12, 323, 575	4, 528, 483	345, 726	340, 843	345, 422	288, 993
Nebraska	5, 106, 548	494, 085	122, 985	8, 541	11, 911	19, 373	3, 406
Nevada	672, 613	340, 860	281, 532	38, 996	41, 523	41, 834	24, 024
New Mexico	5, 204, 463	7, 500, 886	6, 765, 794	435, 152	553, 308	662, 427	605, 406
North Dakota	2, 129, 644	790, 023	128, 417	18, 540	9, 129	10, 555	5, 594
Oklahoma	390, 896	183, 756	80, 546	15, 360	10, 511		
Oregon	3, 138, 108	2, 599, 364	2, 118, 054	144, 962	154, 242	135, 565	100, 573
South Dakota	2, 204, 050	2, 861, 849	1, 177, 594	57, 202	53, 506	55, 134	51, 015
Utah	1, 587, 780	1, 305, 605	1, 456, 411	275, 776	252, 130	202, 200	174, 540
Washington	1, 124, 407	603, 091	288, 671	20, 849	14, 286	13, 411	8, 324
Wisconsin	62, 629	19, 485	10, 071				
Wyoming	2, 928, 357	9, 976, 381	7, 634, 649	487, 390	695, 391	763, 297	712, 850
<b>Original entries, stock-raising homesteads (incl. above)</b>		<b>1 13, 721, 422</b>	<b>26, 260, 485</b>	<b>2, 170, 028</b>	<b>2, 571, 646</b>	<b>2, 667, 392</b>	

## PERFECTED ENTRIES, ALL HOMESTEADS, ENTIRE UNITED STATES \*

1868	355, 086	1884	2, 945, 575	1900	3, 477, 843	1916	7, 278, 281
1869	504, 302	1885	3, 032, 679	1901	5, 241, 121	1917	8, 497, 390
1870	519, 728	1886	2, 663, 532	1902	4, 342, 748	1918	8, 236, 438
1871	629, 162	1887	2, 749, 087	1903	3, 576, 964	1919	6, 524, 760
1872	707, 410	1888	3, 175, 401	1904	3, 232, 717	1920	8, 372, 696
1873	1, 224, 891	1889	3, 681, 709	1905	3, 419, 387	1921	7, 726, 740
1874	1, 585, 782	1890	4, 060, 593	1906	3, 526, 749	1922	7, 307, 034
1875	2, 068, 538	1891	3, 954, 588	1907	3, 740, 568	1923	5, 594, 259
1876	2, 590, 553	1892	3, 259, 897	1908	4, 242, 711	1924	4, 791, 436
1877	2, 407, 828	1893	3, 477, 232	1909	3, 699, 467	1925	4, 048, 911
1878	2, 662, 981	1894	2, 929, 947	1910	3, 795, 863	1926	3, 451, 106
1879	2, 070, 842	1895	2, 980, 809	1911	4, 620, 197	1927	2, 583, 627
1880	1, 938, 235	1896	2, 790, 243	1912	4, 306, 089	1928	1, 815, 549
1881	1, 928, 205	1897	2, 778, 404	1913	10, 009, 285		
1882	2, 219, 454	1898	3, 096, 018	1914	9, 291, 121		
1883	2, 504, 415	1899	3, 134, 140	1915	7, 180, 982	Total	230, 558, 231

\* Totals include entries made at the General Land Office and discontinued offices

\* Includes entries of abandoned military reservations.

\* 1918-1920 only.

\* Includes stock-raising homesteads, 1919, 90,000 acres, 1920, 622,610, 1921, 1,755,099, 1922, 2,399,384; 1923, 2,627,065; 1924, 2,822,211, 1925, 2,753,924; 1926, 2,497,007; 1927, 1,932,096; 1928, 1,884,902

## No. 144.—STOCK-RAISING HOMESTEADS: ORIGINAL ENTRIES OF PUBLIC AND INDIAN LAND FROM PASSAGE OF ACT TO JUNE 30, 1928

State	Entries	Acres	State	Entries	Acres
<b>Total</b>	<b>120, 774</b>	<b>48, 442, 182</b>	Nebraska	474	82, 663
Arizona	3, 401	1, 555, 743	Nevada	660	350, 790
Arkansas	4	1, 600	New Mexico	22, 462	9, 722, 974
California	6, 222	2, 499, 441	North Dakota	732	219, 113
Colorado	16, 154	6, 217, 102	Oklahoma	366	71, 349
Idaho	5, 802	2, 536, 505	Oregon	6, 880	2, 723, 021
Kansas	233	58, 506	South Dakota	6, 992	2, 377, 322
Michigan		1, 821	Utah	3, 236	1, 739, 322
Montana	16, 398	5, 684, 307	Washington	1, 413	446, 595
			Wyoming	29, 328	12, 202, 365

Source of Tables 143 and 144: General Land Office, Department of the Interior.

**No. 145.—TIMBER AND STONE, COAL, MINERAL, AND DESERT LAND  
ENTRIES OF PUBLIC LAND**

State	From passage of act to June 30, 1928				Year ended June 30, 1923				
	Timber and stone	Coal	Desert land		Timber and stone	Coal	Min- eral	Desert land	
			Original	Perfected				Original	Per- fected
<b>Acreage of entries.....</b>	<b>13,814,822</b>	<b>604,363</b>	<b>32,695,948</b>	<b>8,562,736</b>	<b>14,591</b>	<b>80</b>	<b>50,800</b>	<b>39,947</b>	<b>22,797</b>
Alabama.....	43,735	239	—	—	—	—	—	—	—
Alaska.....	—	—	—	—	—	—	3,413	—	—
Arizona.....	2,943	6,693	2,567,402	347,350	—	—	1,825	14,165	2,360
Arkansas.....	359,702	—	—	—	1,996	—	—	—	—
California.....	2,895,481	5,535	5,159,824	879,669	1,826	—	6,390	8,337	2,534
Colorado.....	399,629	1 216,609	3,224,223	706,382	440	—	2,350	385	2,069
Dakota Territory.....	—	584	20,021	300	—	—	—	—	—
Florida.....	108,956	—	—	—	119	—	—	—	—
Idaho.....	1,012,947	3,277	3,109,651	1,025,403	1,617	—	2,260	1,145	2,077
Iowa.....	179	—	—	—	—	—	—	—	—
Louisiana.....	150,277	—	—	—	—	—	—	—	—
Michigan.....	149,667	—	—	—	—	—	—	—	—
Minnesota.....	1,408,613	—	—	—	566	—	—	—	—
Mississippi.....	19,818	—	—	—	—	—	—	—	—
Montana.....	664,005	64,758	5,981,054	2,762,171	160	—	374	973	2,518
Nebraska.....	97	—	—	—	—	—	—	—	—
Nevada.....	6,502	1,661	640,444	158,603	—	—	1,401	5,732	2,653
New Mexico.....	—	26,613	2,158,515	232,375	—	—	366	40	310
North Dakota.....	8,646	9,544	85,279	20,094	—	—	—	—	—
Oklahoma.....	40	—	—	—	—	—	—	—	—
Oregon.....	3,812,413	10,572	1,111,758	297,395	5,885	—	206	400	1,198
South Dakota.....	63,909	3,624	609,291	101,761	—	—	71	—	—
Utah.....	3,106	75,828	1,497,733	451,153	—	—	30,662	5,289	5,130
Washington.....	2,166,689	64,894	997,954	70,865	405	80	—	—	—
Wisconsin.....	80,362	—	—	—	—	—	—	—	—
Wyoming.....	452,589	113,924	5,532,796	1,509,214	464	—	1,283	3,480	1,948
General Land Office.....	3,287	8	—	—	1,113	—	—	—	—
<b>Number of entries.....</b>	<b>107,526</b>	<b>4,416</b>	<b>158,967</b>	<b>46,438</b>	<b>168</b>	<b>1</b>	<b>288</b>	<b>249</b>	<b>157</b>
<b>Money payment, dollars.....</b>	<b>35,451,694</b>	<b>11,921,002</b>	<b>7,867,499</b>	<b>8,671,172</b>	<b>66,594</b>	<b>1,600</b>	<b>154,670</b>	<b>9,953</b>	<b>22,798</b>

<sup>1</sup> Includes 53,496 acres within the Ute Reservation

**No. 146.—ACREAGE OF PUBLIC LAND CERTIFIED OR PATENTED ON AC-  
COUNT OF RAILWAY AND WAGON-ROAD GRANTS: YEARS ENDED JUNE 30**

	1911-1915, total	1916-1920, total	1921-1925, total	1924	1925	1926	1927	1928
<b>Railway grants, total.....</b>	<b>4,711,489</b>	<b>5,878,674</b>	<b>6,186,079</b>	<b>1,571,675</b>	<b>440,416</b>	<b>239,060</b>	<b>117,403</b>	<b>84,874</b>
Alabama.....	40	120	—	—	—	—	161	115
Arizona.....	337,533	1,163,775	3,451,578	842,672	219,278	9,700	19,999	4,197
Arkansas.....	80	—	227	—	160	—	—	80
California.....	640,809	319,262	1,032,815	214,613	94,601	86,719	70,332	21,463
Colorado.....	240	160	14,482	160	723	160	—	—
Florida.....	10,975	—	639	—	—	40	—	120
Idaho.....	203,971	102,108	170,611	2,862	—	—	—	—
Iowa.....	11	80	—	—	—	—	—	—
Kansas.....	—	—	40	40	—	—	19	—
Louisiana.....	9,441	484	—	—	—	—	87	819
Michigan.....	55	—	—	—	—	—	357	—
Minnesota.....	24,823	5,744	328	—	16	43	317	4,379
Missouri.....	—	240	600	—	—	—	—	—
Montana.....	2,562,095	1,704,549	251,343	35,562	—	—	—	—
Nebraska.....	—	—	200	—	—	156	280	—
Nevada.....	76,394	515,222	712,504	206,306	123,066	32,580	9,527	44,696
New Mexico.....	70,505	1,525,406	344,121	191,792	1,137	96,984	15,552	8,466
North Dakota.....	53,597	623	70	—	—	—	—	—
Oregon.....	117,678	39,372	23,986	597	—	—	1,472	40
Utah.....	14,617	112,351	160	—	—	—	80	—
Washington.....	257,955	381,113	166,283	74,112	1,394	1,988	368	—
Wisconsin.....	2,041	720	1,405	1,160	40	720	244	—
Wyoming.....	10,629	7,344	14,624	1,638	—	—	—	—
<b>Wagon-road grants.....</b>	<b>253,234</b>	<b>19,637</b>	<b>34,356</b>	<b>1,965</b>	<b>15,259</b>	<b>—</b>	<b>1,392</b>	<b>1,356</b>

Source of Tables 145 and 146: General Land Office, Department of the Interior.

# No. 147.—ACREAGE OF LAND CERTIFIED OR PATENTED UNDER RAILWAY OR WAGON-ROAD GRANTS FROM 1850 TO JUNE 30, 1928

State grants, total	37,802,904	Minnesota, total	8,045,292
Illinois Illinois Central	2,595,133	St. Paul, Minneapolis & Manitoba (formerly first division, St. Paul & Pacific)	
Mississippi, total	1,075,345	Western R. R. (succeeded by St. Paul & Northern Pacific R. R. Co.)	3,272,149
Mobile & Ohio River	737,130	St. Paul, Minneapolis & Manitoba (formerly St. Vincent extension of the St. Paul & Pacific)	
Vicksburg & Meridian	199,102	Minnesota Central	179,734
Gulf & Ship Island	139,113	Winona & St. Peter	1,680,975
Alabama, total	2,746,838	St. Paul & Sioux City	1,126,619
Mobile & Ohio	1419,528	St. Paul & Duluth	861,091
Alabama & Florida	399,023	Southern Minnesota, from a point on the Mississippi River to Houston	546,745
Selma, Rome & Dalton	458,671	Southern Minnesota Extension (now Chicago, Milwaukee & St. Paul)	377,978
Cosa & Tennessee	37,785	Hastings & Dakota	
Mobile & Girard	302,181	Minnesota, North Dakota, Montana, and Washington	
Alabama & Chattanooga	654,170	St. Paul, Minneapolis & Manitoba, now Great Northern (main and branch), a special act (Aug. 5, 1892, 27 Stat. L. 390) to provide for indemnity for lands relinquished by the company	(4)
South & North Alabama	445,478	Kansas, total	4,634,197
Florida, total	2,217,779	Leavenworth, Lawrence & Galveston	249,446
Florida Central & Peninsular	742,468	Missouri, Kansas & Texas	976,593
Florida & Alabama	166,691	Atchison, Topeka & Santa Fe	2,944,788
Pensacola & Georgia	1,279,237	St. Joseph & Denver City	463,369
Florida, Atlantic & Gulf Central	29,384	Corporation grants, total	93,676,387
Louisiana: Vicksburg, Shreveport & Pacific	372,998	Union Pacific	11,935,281
Arkansas, total	2,562,402	Central Pacific	7,336,066
St. Louis, Iron Mountain & Southern	1,325,622	Central Pacific (successor by consolidation with Western Pacific)	461,498
Little Rock & Fort Smith	1,052,083	Central branch, Union Pacific	223,139
Memphis & Little Rock	184,697	Union Pacific (Kansas division)	6,176,384
Missouri, total	1,837,968	Union Pacific (successor to Denver Pacific Railway Co.)	821,324
Southwest branch of the Pacific road	1,161,285	Burlington & Missouri River in Nebraska	2,374,091
Hannibal & St. Joseph	611,323	Sioux City & Pacific (now Missouri Valley Land Co.)	42,611
St. Louis, Iron Mountain & Southern	65,360	Northern Pacific	39,030,499
Iowa, total	4,929,849	Oregon branch of Central Pacific (California & Oregon)	3,219,184
Burlington & Missouri River	389,990	Oregon & California	2,777,632
Chicago, Rock Island & Pacific	243,214	Atlanta & Pacific (now Santa Fe Pacific)	11,288,133
Cedar Rapids & Missouri River	1,922,825	Southern Pacific (main line)	4,634,230
Dubuque & Sioux City	244,023	Southern Pacific (branch line)	2,225,754
Iowa Falls & Sioux City	556,407	Oregon Central	128,613
Des Moines Valley (river-improvement grant)	683,057	New Orleans Pacific	1,001,943
Chicago, Milwaukee & St. Paul, formerly McGregor & Missouri River	840,171	Wagon roads, total	3,296,618
Sioux City & St. Paul	326,216	From Lake Erie to Connecticut Western Reserve	80,774
Michigan, total	3,133,589	From Lake Michigan to Ohio River	170,580
Port Huron & Lake Michigan	37,407	From Fort Wilkens, Copper Harbor, Mich., to Green Bay, Wis.	302,931
Jackson, Lansing & Saginaw	745,823	From Fort Wilkens, Copper Harbor, Mich., to Wisconsin State line	221,013
Grand Rapids & Indiana	852,521	Oregon Central Military Co. (now California & Oregon Land Co.)	877,944
Flint & Pere Marquette	513,130	Corvallis and Yaquina Bay	83,717
Marquette, Houghton & Ontonagon	305,930	Willamette Valley and Cascade Mountain	861,512
Ontonagon & Brule River	34,227	Dalles Military Road	592,907
Bay de Noquet & Marquette	128,301	Cos Bay Military Road	105,240
Chicago & North Western	518,185		
Wisconsin, total	3,651,513		
Chicago, St. Paul, Minneapolis & Omaha (formerly West Wisconsin)	814,671		
Wisconsin Railroad Farm Mortgage Land Co.	163,160		
Chicago, St. Paul, Minneapolis & Omaha (formerly St. Croix & Lake Superior)	816,488		
Branch to Bayfield	471,721		
Chicago & North Western	546,446		
Wisconsin Central	839,028		

<sup>1</sup> In the adjustment of this grant the road was treated as an entirety and without reference to the State line. Hence Alabama has had approved to her more and Mississippi less than they would appear to be entitled to in proportion to the length of road in the respective States.

<sup>2</sup> Includes 35,685 acres of the Chicago, Rock Island & Pacific Ry.; 109,757 acres of the Cedar Rapids & Missouri River R. R., and 77,535 acres of the Dubuque & Sioux City R. R., situated in the old Des Moines River grant of Aug. 8, 1846, which should be deducted.

<sup>3</sup> Declared to be one grant.

<sup>4</sup> See Minnesota for original grants.

<sup>5</sup> Leavenworth, Lawrence & Galveston includes 186,937 acres and Missouri, Kansas & Texas 270,971 acres in the Osage ceded reservation which are to be deducted under decision of the Supreme Court.

Source: General Land Office, Department of the Interior

# No. 148.—LAND GRANTS (INCLUDING SCRIP) TO STATES FOR EDUCATIONAL AND OTHER PURPOSES: ACREAGE TO JUNE 30, 1928

NOTE.—Does not include grants to States for specific railroad and wagon road companies covered by Table 147 The column "Internal improvements" covers only general items so designated

State	Total	Common schools	Universities and agricultural education	Other educational	Miscellaneous institutions	Internal improvements	Swamp	All other
<b>Total</b> -----	<b>202,707,457</b>	<b>99,188,946</b>	<b>13,522,437</b>	<b>3,192,800</b>	<b>13,221,890</b>	<b>11,469,245</b>	<b>64,786,921</b>	<b>7,325,219</b>
Alabama-----	2,258,262	911,627	286,080	96,080	181	500,000	439,634	24,660
Alaska-----	21,345,209	21,009,209	336,000					
Arizona-----	10,489,236	8,093,156	396,080	450,000	450,000			1,100,000
Arkansas-----	9,372,993	933,778	196,080			500,000	7,686,455	56,680
California-----	8,425,320	5,534,293	196,080			500,000	2,188,547	6,400
Colorado-----	4,433,538	3,685,618	137,680		32,000	500,000		78,240
Connecticut-----	180,000		180,000					
Delaware-----	90,000		90,000					
Florida-----	21,969,409	975,307	90,000	92,160		500,000	20,306,822	5,120
Georgia-----	270,000		270,000					
Idaho-----	3,631,965	2,963,698	186,080	200,000	1 250,000			32,187
Illinois-----	3,639,226	996,320	480,000	46,080		533,368	1,459,868	123,589
Indiana-----	4,306,253	668,578	390,000	46,080		1,916,805	1,259,191	25,600
Iowa-----	3,019,646	988,196	286,080			500,000	1,196,090	49,280
Kansas-----	3,606,783	2,907,520	143,782			500,000		55,501
Kentucky-----	352,509		330,000		22,509			
Louisiana-----	11,019,719	807,271	210,212	46,080		500,000	9,456,156	
Maine-----	210,000		210,000					
Maryland-----	210,000		210,000					
Massachusetts-----	360,000		360,000					
Michigan-----	8,787,566	1,021,867	286,080			500,000	5,680,103	1,299,516
Minnesota-----	8,361,541	2,874,951	212,160			500,000	4,693,568	80,873
Mississippi-----	4,949,786	824,213	210,000	69,120		500,000	3,345,200	1,253
Missouri-----	5,574,486	1,221,813	330,000	46,080		500,000	3,427,953	48,640
Montana-----	5,869,618	5,198,258	186,560	202,000	100,000			182,800
Nebraska-----	3,458,711	2,730,951	136,080		32,000	500,000		59,680
Nevada-----	2,723,647	2,061,967	46,080	90,000	12,800	500,000		12,800
New Hampshire-----	150,000		150,000					
New Jersey-----	210,000		210,000					
New Mexico-----	12,656,027	8,711,324	562,703	650,000	750,000			1,982,000
New York-----	990,000		990,000					
North Carolina-----	270,000		270,000					
North Dakota-----	3,163,552	2,495,396	216,080	120,000	1 250,000			82,076
Ohio-----	2,492,926	724,266	630,000	69,120		1,019,072	26,252	24,216
Oklahoma-----	3,095,760	2,044,000	600,000	450,000	1,760			
Oregon-----	4,352,133	3,399,360	136,080			500,000	264,213	52,480
Pennsylvania-----	780,000		780,000					
Rhode Island-----	120,000		120,000					
South Carolina-----	180,000		180,000					
South Dakota-----	3,434,203	2,733,084	246,080	120,000	1 250,640			84,399
Tennessee-----	300,000		300,000					
Texas-----	180,000		180,000					
Utah-----	7,414,276	5,844,196	356,080	200,000	450,000			564,000
Vermont-----	150,000		150,000					
Virginia-----	300,000		300,000					
Washington-----	3,044,471	2,376,391	136,080	200,000	1 200,000			132,000
West Virginia-----	150,000		150,000					
Wisconsin-----	6,220,117	982,329	332,160			500,000	3,356,879	1,048,749
Wyoming-----	4,138,569	3,470,009	136,080		1 420,000			112,480

<sup>1</sup> Includes "Educational and charitable" as follows Idaho, 150,000 acres; North Dakota, 170,000 acres South Dakota, 170,000 acres, Washington, 200,000 acres.

<sup>2</sup> Includes educational, penal, etc., 290,000 acres.

Source: General Land Office, Department of the Interior

**No. 149.—ACREAGE OF PUBLIC AND INDIAN LAND PATENTED: YEARS  
ENDED JUNE 30**

Class	1921-1925, total	1926-1928, total	1928	State	1921-1925, total	1926-1928, total	1928
<b>Total</b> .....	<b>46,515,448</b>	<b>11,843,941</b>	<b>2,477,867</b>	Alabama.....	54,118	25,417	6,242
Abandoned military reservation.....	62,594	13,773	3,353	Alaska.....	68,415	28,343	7,960
Coal.....	12,810	757	317	Arizona.....	5,084,864	419,607	93,009
Commuted homestead.....	331,201	83,023	22,789	Arkansas.....	322,674	76,105	16,166
Desert land.....	1,063,845	197,249	43,701	California.....	2,782,158	876,225	201,458
Desert-land segregation.....	244,359	19,330	1,039	Colorado.....	5,644,673	1,467,273	287,956
Forest exchange.....		31,618	14,508	Florida.....	121,705	99,453	23,051
Forest homesteads.....	596,396	88,039	21,496	Idaho.....	1,864,173	432,199	76,279
Forest-land selection.....	161,840	26,088	1,515	Illinois.....	3,331	723	
Homestead final.....	5,530,497	944,436	199,718	Indiana.....	3,908	3,760	591
Homestead enlarged.....	14,501,164	1,578,297	288,200	Iowa.....	1,424	299	139
Homestead stock-raising.....	12,199,452	6,301,562	1,387,278	Kansas.....	157,307	13,562	2,570
Indian homestead.....	577,468	218,970	1,642	Louisiana.....	77,737	33,311	36,519
Indian trust.....	2,715,951	768,665	201,682	Michigan.....	75,943	9,755	2,955
Mineral.....	266,643	140,543	52,892	Minnesota.....	327,094	72,330	36,550
Miscellaneous cash.....	90,164	62,471	18,944	Mississippi.....	68,913	51,830	3,869
Private land claim.....	137,271	40,471	13,226	Missouri.....	5,669	2,304	452
Public sale.....	473,304	96,284	28,459	Montana.....	9,994,114	2,165,796	482,435
Railroad.....	6,185,467	431,890	84,920	Nebraska.....	266,832	47,595	11,159
Reclamation homesteads.....	143,894	29,689	8,028	Nevada.....	937,424	195,134	73,425
Small holding claim.....	16,087	3,827	540	New Mexico.....	4,997,676	1,642,153	316,310
Soldiers' additional.....	19,406	5,593	1,765	North Dakota.....	601,987	60,656	13,295
Special acts.....	741,801	62,412	13,296	Ohio.....	4,494	2,153	375
Swamp.....	58,589	68,245	46,248	Oklahoma.....	95,371	23,999	4,778
Timber sales.....	134,959	23,478	( <sup>1</sup> )	Oregon.....	2,085,167	633,019	101,834
Timber and stone.....	240,982	63,718	17,482	South Dakota.....	2,307,205	440,399	81,064
Town lots.....	2,718	2,146	297	Utah.....	701,475	389,703	114,480
Town site.....	964	919	34	Washington.....	753,944	237,701	73,695
Miscellaneous.....	105,596	40,449	4,495	Wisconsin.....	22,083	9,887	1,614
				Wyoming.....	7,083,673	1,843,250	407,637

<sup>1</sup> Total for years 1924 and 1925.<sup>2</sup> Area reported elsewhere.<sup>3</sup> Total for years 1921 and 1923 to 1925.

Source General Land Office, Department of the Interior

**No. 150.—RECEIPTS UNDER THE MINERAL LEASING ACT OF FEBRUARY 25,  
1920: FROM THE PASSAGE OF THE ACT TO JUNE 30, 1928**

State	Total	1921-1923	1924	1925	1926	1927	1928
<b>Total</b> .....	<b>Dollars 67,747,622</b>	<b>Dollars 26,105,481</b>	<b>Dollars 13,631,841</b>	<b>Dollars 8,278,709</b>	<b>Dollars 8,384,719</b>	<b>Dollars 6,669,519</b>	<b>Dollars 4,677,354</b>
Alabama.....	91,901		85,460	920	920	1,565	3,036
California.....	17,333,531	11,662,664	957,481	1,037,007	1,092,493	1,194,086	1,389,800
Colorado.....	431,508	26,405	33,513	71,285	94,418	109,047	96,839
Idaho.....	5,743	374			924	1,963	2,482
Louisiana.....	23,064	846	2,296	925	883	14,216	3,898
Montana.....	1,469,450	513,606	225,501	172,684	249,691	188,897	119,070
Nevada.....	5,120			720	1,497	1,440	1,463
New Mexico.....	70,004	3,081	4,784	3,474	17,437	15,392	25,335
North Dakota.....	75,026	7,188	10,587	8,136	8,630	7,744	32,740
South Dakota.....	601	88	35	168	252	19	40
Utah.....	257,719	69,792	35,403	26,822	32,750	34,871	58,081
Washington.....	25,402	7,876	6,280	3,065	1,699	2,604	3,977
Wyoming.....	47,968,555	13,813,560	12,270,501	6,953,501	6,888,126	5,097,775	2,940,091

Source. General Land Office, Department of the Interior.

# **No. 151.—A.CREAGE OF PUBLIC LAND WITHDRAWN FROM SETTLEMENT AND RESTORATIONS THEREFROM**

NOTE.—These figures cover withdrawals and restorations for purposes shown only. They do not include national forests (see tables in section 29, Forests and Forest Products), national parks (see Table 154), withdrawals under the reclamation act, or small miscellaneous reservations

	Coal land	Oil land	Phosphate land	Potash land	Power-site reserve <sup>1</sup>	Reservoir sites	Public water reserve
<b>Withdrawals outstanding June 30—</b>							
1920-----	40, 138, 742	6, 751, 436	2, 724, 394	130, 100	3, 687, 819	62, 854	240, 363
1921-----	39, 875, 414	6, 691, 414	2, 724, 340	130, 100	3, 705, 617	200, 894	244, 632
1922-----	34, 966, 492	6, 580, 611	2, 425, 494	130, 100	3, 684, 350	202, 438	255, 249
1923-----	34, 558, 369	6, 417, 662	2, 425, 454	130, 100	3, 848, 236	202, 438	254, 810
1924-----	31, 951, 634	5, 995, 939	2, 390, 873	130, 100	3, 883, 141	210, 422	355, 232
1925-----	31, 442, 263	5, 940, 921	2, 319, 863	130, 100	4, 243, 768	210, 422	357, 307
1926-----	31, 128, 509	5, 802, 617	2, 320, 023	7, 548, 537	4, 499, 621	253, 608	359, 566
1927-----	30, 535, 330	5, 273, 362	2, 307, 919	7, 548, 537	4, 915, 131	253, 608	362, 521
1928-----	30, 145, 779	5, 269, 402	2, 298, 323	7, 548, 497	4, 994, 827	254, 528	392, 876
Alabama-----					1, 789		
Alaska-----					164, 277		
Arizona-----	139, 415	92, 496			1, 231, 190		18, 335
Arkansas-----					23, 484		
California-----	17, 603	1, 178, 392		90, 638	600, 773	45, 266	187, 688
Colorado-----	4, 177, 601	218, 997			414, 752		4, 948
Florida-----			68, 641				
Idaho-----	4, 761		652, 864		396, 480		13, 905
Louisiana-----		466, 990					
Michigan-----					1, 240		
Minnesota-----					12, 309		
Montana-----	7, 835, 574	1, 344, 640	279, 904		181, 222	9, 080	8, 176
Nebraska-----					761		
Nevada-----	83, 603			39, 422	55, 518		11, 406
New Mexico-----	5, 073, 476			7, 418, 437	262, 495		9, 811
North Dakota-----	6, 192, 376	84, 894				478	
Oregon-----	4, 361				689, 788	18, 603	21, 481
South Dakota-----							240
Utah-----	3, 664, 530	919, 630	301, 945		609, 675	26, 040	35, 941
Washington-----	692, 075				243, 048	36, 327	920
Wyoming-----	2, 260, 404	963, 363	994, 969		106, 026	118, 734	80, 025
<b>New withdrawals during year ended June 30—</b>							
1924-----					87, 434	7, 984	107, 205
1925-----					398, 860		3, 035
1926-----			280	7, 418, 437	278, 389	43, 186	5, 850
1927-----	25, 996				457, 466		4, 275
1928-----					84, 789	920	31, 153
Alabama-----					27, 857		
Arizona-----							2, 570
California-----					29, 212	920	20, 240
Colorado-----					32		2, 568
Idaho-----					11, 031		560
Montana-----							120
Nevada-----							1, 760
Oregon-----					11, 620		720
Utah-----					4, 957		2, 375
Wyoming-----					80		240
<b>Restorations of lands previously withdrawn, year ended June 30—</b>							
1924-----	2, 606, 735	421, 723	34, 581		52, 529		6, 783
1925-----	509, 370	55, 418	71, 010		38, 233		960
1926-----	313, 754	137, 904	120		22, 438		3, 591
1927-----	619, 175	529, 255	12, 104		41, 956		1, 360
1928-----	389, 531	3, 960	9, 596	40	5, 081		798
Arizona-----					2		70
Arkansas-----					360		
California-----				40	57		8
Colorado-----	80				100		
Florida-----			9, 596				
Montana-----	389, 381						
Nevada-----	70						
Oregon-----					3, 564		
Utah-----							720
Wyoming-----		3, 960			938		

<sup>1</sup> Includes withdrawals under act of June 25, 1910, power-site designations under acts of June 20, 1910, and June 9, 1916, and power-site classifications under act of Mar 3, 1879.

## No. 152.—PUBLIC LAND: ACRES UNAPPROPRIATED AND UNRESERVED, JUNE 30

State	1890	1900	1910	1920	1926	1927	1928
<b>Total</b> .....	<b>586,216,861</b>	<b>557,643,120</b>	<b>343,971,674</b>	<b>200,320,128</b>	<b>196,056,747</b>	<b>193,737,588</b>	<b>193,847,240</b>
Alabama.....	1,105,060	359,250	108,210	37,200	32,260	—	—
Arizona.....	49,699,052	50,286,986	41,491,869	18,268,909	18,090,711	16,961,100	18,199,100
Arkansas.....	4,902,329	3,493,444	512,705	276,595	221,316	227,529	218,911
California.....	53,922,718	42,467,512	24,864,884	19,583,801	20,667,431	20,610,877	20,422,083
Colorado.....	39,994,446	39,660,411	21,726,192	8,941,185	7,398,007	7,213,300	7,717,121
Florida.....	5,624,426	1,596,411	453,009	120,077	4,458	13,862	11,506
Idaho.....	46,057,230	43,286,694	24,743,804	8,805,112	10,990,470	10,847,882	10,764,857
Iowa.....	5,000	—	—	—	—	—	—
Kansas.....	755,791	1,196,900	137,180	4,346	—	—	—
Louisiana.....	1,358,853	442,224	88,911	14,240	9,597	—	—
Michigan.....	832,707	430,483	107,890	73,523	—	—	—
Minnesota.....	6,913,554	4,696,203	1,563,302	256,297	250,256	248,740	214,340
Mississippi.....	1,407,480	285,804	47,058	33,360	—	—	—
Missouri.....	1,151,463	5,733,946	2,510	18	—	—	—
Montana.....	64,807,627	67,963,057	36,015,943	5,973,741	6,696,924	6,942,527	7,192,318
Nebraska.....	11,226,584	9,798,688	1,879,486	66,844	32,611	30,001	28,623
Nevada.....	50,804,540	61,277,506	56,474,688	54,267,175	53,925,693	53,112,473	53,878,958
New Mexico.....	56,360,326	56,541,170	36,454,692	18,448,878	16,399,031	17,065,843	16,869,600
North Dakota.....	30,497,400	18,725,339	1,410,225	81,044	133,237	133,814	126,474
Oklahoma.....	3,694,693	5,733,572	5,007	7,404	28,772	—	—
Oregon.....	38,273,228	34,377,907	17,580,573	14,006,757	13,256,430	13,176,034	13,423,703
South Dakota.....	10,241,498	11,930,809	4,562,804	288,472	300,956	383,800	396,200
Utah.....	36,205,100	42,967,451	35,955,554	29,991,715	26,872,218	26,259,172	25,994,956
Washington.....	19,646,316	11,125,883	3,196,059	1,086,686	896,207	931,544	877,921
Wisconsin.....	819,320	313,565	14,460	5,154	—	—	—
Wyoming.....	49,010,060	48,338,169	34,676,159	19,679,595	19,849,762	19,579,090	17,510,569

<sup>1</sup> Exclusive of the Cherokee Strip, containing 8,004,644 acres, and all other lands owned or claimed by the Indians in the Indian Territory west of the ninety-sixth degree of longitude.

<sup>2</sup> Increase over area June 30, 1925, due to special check and revision of vacant land statistics.

<sup>3</sup> Figures include 3,672,640 acres of unsurveyed land in public land strip.

Source: General Land Office, Department of the Interior.

## No. 153.—AREA OF INDIAN RESERVATIONS AND INDIAN POPULATION OF THE UNITED STATES, EXCLUSIVE OF ALASKA: JUNE 30

State	Area of Indian reservations—unallotted square miles					Indian population				
	1880	1890	1900	1920	1928	1880	1890	1900	1920	1928
<b>Total</b> .....	<b>241,800</b>	<b>162,981</b>	<b>121,665</b>	<b>55,792</b>	<b>47,285</b>	<b>256,127</b>	<b>243,534</b>	<b>270,544</b>	<b>338,337</b>	<b>355,901</b>
Arizona.....	4,832	10,318	23,673	34,195	33,892	21,361	30,749	40,189	42,400	46,901
California.....	783	772	635	690	668	10,669	12,108	11,431	16,241	18,912
Colorado.....	19,480	1,710	—	619	619	2,530	1,793	995	796	835
Florida.....	—	—	—	42	42	—	—	575	454	506
Idaho.....	4,295	3,553	2,132	87	90	4,020	4,251	3,557	4,048	3,865
Indian Territory.....	64,236	40,412	30,490	—	—	176,895	168,225	186,265	—	—
Iowa.....	—	—	—	5	—	355	399	385	—	—
Kansas.....	215	159	44	—	2	746	1,016	1,211	1,466	1,541
Michigan.....	104	42	13	—	—	10,141	7,428	7,557	7,510	7,607
Minnesota.....	7,853	3,523	2,448	865	868	6,198	6,403	8,952	12,651	15,310
Montana.....	45,870	16,549	14,845	5,538	895	21,650	10,842	10,076	12,374	13,734
Nebraska.....	682	214	117	10	12	4,409	3,254	3,854	2,461	4,323
Nevada.....	1,383	1,490	1,491	1,135	1,800	6,800	8,375	8,321	5,900	4,920
New Mexico.....	11,295	15,629	2,606	3,278	3,314	23,452	10,998	9,480	21,530	22,786
New York.....	135	137	137	137	137	5,139	5,112	5,334	6,432	4,419
North Carolina.....	102	102	154	99	99	2,200	3,000	1,436	8,268	12,309
North Dakota.....	57,214	9,158	5,784	156	2	27,168	7,759	8,276	9,018	10,390
Oklahoma.....	—	20,770	10,756	5	51	—	13,176	13,925	119,255	119,335
Oregon.....	6,022	3,242	2,031	1,860	1,752	5,355	4,507	4,063	6,629	6,731
South Dakota.....	(?)	18,221	14,050	568	425	(?)	19,696	19,212	23,010	23,124
Texas.....	—	—	—	—	—	290	290	290	702	2,109
Utah.....	3,186	6,207	3,186	526	531	840	2,211	2,115	3,057	1,574
Washington.....	10,821	6,321	3,646	2,655	1,335	14,289	9,830	9,827	11,114	13,573
Wisconsin.....	916	800	695	424	428	8,847	9,152	10,726	10,319	11,427
Wyoming.....	2,375	3,660	2,828	2,899	820	2,063	1,658	1,642	1,748	1,963
Miscellaneous.....	—	—	—	—	—	710	1,302	849	8,579	7,310

<sup>1</sup> Figures include the Five Civilized Tribes, with population as follows: 1880, 59,187; 1890, 65,200; 1900, 84,750; 1920 and 1928, 101,506, including 23,405 freedmen and 2,582 intermarried whites.

<sup>2</sup> Figures shown for North Dakota are for Dakota Territory

Source: Commissioner of Indian Affairs, Department of the Interior

**No. 154.—NATIONAL PARKS AND NATIONAL MONUMENTS**  
**PARKS ADMINISTERED BY NATIONAL PARK SERVICE**

Name	Location	When established	Area	Description
Total area (20 parks).....			<i>Sq. miles</i> 11,846	
Hot Springs <sup>1</sup> .....	Middle Arkan- sas.	Apr. 20, 1832	1½	46 hot springs possessing curative properties—Many hotels and boarding houses—19 bathhouses under public control.
Yellowstone <sup>1</sup> .....	Northwestern Wyoming, southwestern Montana, and northeastern Idaho.	Mar. 1, 1872	23,348	More geysers than in all the rest of world together—Boiling springs—Mud volcanoes—Petrified forests—Grand Canyon of the Yellowstone, remarkable for gorgeous coloring—Large lakes—Many large streams and waterfalls—Vast wilderness, greatest wild bird and animal preserve in the world—Exceptional trout fishing.
Sequoia <sup>1</sup> .....	Middle eastern California.	{Sept. 25, 1890 July 3, 1926}	604	The Big Tree National Park—Several hundred sequoia trees over 10 feet in diameter, some 25 to 37 feet in diameter—Tower- ing mountain ranges—Startling precipices—Mount Whitney and Kern River country
Yosemite <sup>1</sup> .....	.....do.....	{Oct. 1, 1890 May 28, 1928}	1,126	Valley of world-famed beauty—Lofty cliffs—Romantic vistas—Many waterfalls of extraordinary height—3 groves of big trees—High Sierra—Waterwheel Falls—Good trout fishing.
General Grant <sup>1</sup> .....	.....do.....	Oct. 1, 1890	4	Created to preserve the celebrated General Grant Tree, 35 feet in diameter.
Mount Rainier <sup>1</sup> ...	West central Washington	{Mar. 2, 1899 May 28, 1926}	325	Largest accessible single peak glacier system—28 glaciers, some of large size—43 square miles of glacier, 50 to 500 feet thick—Wonderful subalpine wild-flower fields.
Crater Lake <sup>1</sup> .....	Southwestern Oregon.	May 22, 1902	249	Lake of extraordinary blue in crater of extinct volcano—Sides 1,000 feet high—Interesting lava formation—Fine fishing.
Wind Cave <sup>1</sup> .....	South Dakota.	Jan. 9, 1903	17	Cavern having many miles of galleries and numerous chambers containing peculiar formations.
Platt.....	Southern Oklahoma.	{July 1, 1902 Apr. 21, 1904 June 29, 1906}	1½	{Many sulphur and other springs possessing medicinal value.
Sullys Hill.....	North Dakota.	{Apr. 27, 1904}	1½	Small park with woods, streams, a lake. Is an important wild-animal preserve.
Mesa Verde <sup>1</sup> .....	Southwestern Colorado.	{June 29, 1906 June 30, 1913}	77	Most notable and best preserved prehistoric cliff dwellings in United States, if not in the world.
Glacier <sup>1</sup> .....	Northwestern Montana.	May 11, 1910	1,534	Rugged mountain region of unsurpassed alpine character—250 glacier-fed lakes of romantic beauty—60 small glaciers—Precipices thousands of feet deep—Almost sensational scenery of marked individuality—Fine trout fishing.
Rocky Mountain <sup>1</sup> ..	North middle Colorado.	{Jan. 26, 1915 <sup>2</sup> Feb. 14, 1917 June 2, 1924 <sup>3</sup> June 9, 1926}	378	Heart of the Rockies—Snowy range, peaks 11,000 to 14,255 feet altitude—Remarkable records of glacial period.
Hawaii <sup>1</sup> .....	Hawaii.....	{Aug. 1, 1916 May 1, 1922 <sup>3</sup> Apr. 11, 1928 <sup>3</sup> }	248	Three separate volcanic areas—Kilauea and Mauna Loa on Hawaii, Haleakala on Maui
Lassen Volcanic <sup>1</sup> ..	Northern California.	{Aug. 9, 1916 Apr. 26, 1928 <sup>3</sup> May 21, 1928}	124	Only active volcano in United States proper—Lassen Peak, 10,465 feet—Cinder cone 6,879 feet—Hot Springs—Mud geysers.
Mount McKinley..	South central Alaska.	{Feb. 26, 1917 Jan. 30, 1922 <sup>3</sup> }	2,645	Highest mountain in North America—Rises higher above surrounding country than any other mountain in the world.
Grand Canyon <sup>1</sup> ...	North central Arizona	{Feb. 26, 1919 Feb. 5, 1927 <sup>3</sup> Mar. 7, 1928 <sup>3</sup> }	1,009	The greatest example of erosion and the most sublime spectacle in the world
Lafayette <sup>1</sup> .....	Maine coast...	.....do.....	12	The group of granite mountains upon Mount Desert Island.
Zion <sup>1</sup> .....	Southwestern Utah.	Nov. 19, 1919	120	Magnificent gorge (Zion Canyon), depth from 800 to 2,000 feet, with precipitous walls—Of great beauty and scenic interest.
Bryce Canyon.....	.....do.....	{June 7, 1924 Feb. 25, 1928 <sup>3</sup> May 12, 1928 Sept. 15, 1928}	22	Box canyon filled with countless array of fantastically eroded pinnacles—Best exhibit of vivid coloring of earth's materials.

<sup>1</sup> General information circulars on these parks may be obtained free from Department of the Interior.

<sup>2</sup> In Wyoming, 3,114 square miles; in Montana, 198, in Idaho, 36

<sup>3</sup> Boundary changed



No. 154.—NATIONAL PARKS AND NATIONAL MONUMENTS—Continued  
MONUMENTS ADMINISTERED BY NATIONAL PARK SERVICE

Name	Location	When established	Area	Description
Total area (32 monuments).....			<i>Acres</i> 2,383,168	
Devils Tower.....	Wyoming.....	Sept. 24, 1906	1,152	Remarkable natural rock tower, of volcanic origin, 1,200 feet in height.
Montezuma Castle.....	Arizona.....	Dec. 8, 1906	160	Prehistoric cliff-dwelling ruin of unusual size in a niche in face of a vertical cliff. Of scenic and ethnologic interest.
El Morro.....	New Mexico.....	{Dec. 8, 1906 June 18, 1917}	240	Enormous sandstone rock eroded in form of a castle, upon which inscriptions have been placed by early Spanish explorers. Contains cliff-dweller ruins. Of great historic, scenic, and ethnologic interest.
Petrified Forest.....	Arizona.....	{Dec. 8, 1906 July 31, 1911}	25,625	Abundance of petrified coniferous trees, one of which forms a small natural bridge. Is of great scientific interest.
Chaco Canyon.....	New Mexico.....	{Mar. 11, 1907 Jan. 10, 1928}	21,509	Numerous cliff-dweller ruins, including communal houses in good condition, and but little excavated.
Muir Woods <sup>1</sup> .....	California.....	{Jan. 9, 1908 Sept. 22, 1921}	426	One of the most noted redwood groves in California, and was donated by Hon. William Kent, ex-Member of Congress. Located 7 miles from San Francisco.
Pinnacles.....	do.....	{Jan. 16, 1908 May 7, 1923 July 2, 1924}	2,980	Many spirelike rock formations, 600 to 1,000 feet high, visible many miles; also numerous caves and other formations.
Natural bridges.....	Utah.....	{Apr. 16, 1908 Sept. 25, 1909 Feb. 11, 1916}	2,740	Three natural bridges, among largest examples of their kind. Largest bridge is 222 feet high, 65 feet thick at top of arch; arch is 28 feet wide; span, 261 feet; height of span, 157 feet. Other two slightly smaller.
Lewis & Clark Cavern <sup>2</sup> .....	Montana.....	{May 11, 1908 May 16, 1911}	160	Immense limestone cavern of great scientific interest, magnificently decorated with stalactite formations. Now closed to public because of depredations by vandals.
Tumacacori.....	Arizona.....	Sept. 15, 1908	10	Ruin of Franciscan mission dating from seventeenth century. Being restored by National Park Service as rapidly as funds permit.
Navajo.....	do.....	{Mar. 20, 1909 Mar. 14, 1912}	360	Contains numerous pueblo, or cliff-dweller ruins, in good preservation.
Shoshone Cavern.....	Wyoming.....	Sept. 21, 1909	210	Cavern of considerable extent, near Cody.
Gran Quivira.....	New Mexico.....	{Nov. 1, 1909 Nov. 25, 1919}	560	One of the most important of earliest Spanish mission ruins in the Southwest.
Sitka.....	Alaska.....	Mar. 23, 1910	57	Monument also contains pueblo ruins. Park of great natural beauty and historic interest as scene of massacre of Russians by Indians. Contains 16 totem poles of best native workmanship.
Rainbow Bridge.....	Utah.....	May 30, 1910	160	Unique natural bridge of great scientific interest and symmetry. Height 309 feet above water, and spans 278 feet, in shape of rainbow.
Colorado.....	Colorado.....	May 24, 1911	13,883	Many lofty monoliths, and is wonderful example of erosion, and of great scenic beauty and interest.
Papago Saguaro.....	Arizona.....	{Jan. 31, 1914 Dec. 28, 1922}	1,940	Splendid collection of characteristic desert flora and numerous pictographs. Interesting rock formations.
Dinosaur.....	Utah.....	Oct. 4, 1915	80	Deposits of fossil remains of prehistoric animal life of great scientific interest.
Capulin Mountain.....	New Mexico.....	Aug. 9, 1916	681	Cinder cone of geologically recent formation.
Verendrye.....	North Dakota.....	June 29, 1917	253	Includes Crowhigh Butte, from which Explorer Verendrye first beheld territory beyond the Missouri River.
Casa Grande.....	Arizona.....	{June 22, 1892 Dec. 10, 1909 Aug. 3, 1918 June 7, 1926}	472	These ruins are one of the most noteworthy relics of a prehistoric age and people within the limits of the United States. Discovered in ruinous condition in 1894.
Katmai.....	Alaska.....	{Sept. 24, 1918 Sept. 5, 1923}	1,087,990	Wonderland of great scientific interest in the study of volcanism. Phenomena exist upon a scale of great magnitude. Includes Valley of Ten Thousand Smokes.
Scotts Bluff.....	Nebraska.....	{Dec. 12, 1919 May 9, 1924}	1,894	Region of historic and scientific interest. Many famous old trails, traversed by the early pioneers in the winning of the West, passed over and through this monument.

<sup>1</sup> Estimated.<sup>2</sup> Donated to United States

**No. 154.—NATIONAL PARKS AND NATIONAL MONUMENTS—Continued**  
**MONUMENTS ADMINISTERED BY NATIONAL PARK SERVICE—Continued**

Name	Location	When established	Area	Description
Yucca House <sup>1</sup> .....	Colorado.....	Dec. 19, 1919	<i>Acres</i> 9 6	Located on eastern slope of Sleeping Ute Mountain. Is pile of masonry of great archaeological value, relic of prehistoric inhabitants.
Fossil Cycad.....	South Dakota.....	Oct. 21, 1922	320	Area containing deposits of fossil plants
Aztec Ruin <sup>5</sup> .....	New Mexico.....	Jan. 24, 1923	17	Prehistoric ruin of pueblo type containing 500 rooms
Hovenweep.....	Utah-Colo.....	July 2, 1923	286	Four groups of prehistoric towers, pueblos, and cliff dwellings.
Pipe Spring.....	Arizona.....	Mar. 2, 1923	40	Old stone fort and spring of pure water in desert region. Serves as memorial to early western pioneer life
Carlsbad Cave.....	New Mexico.....	May 31, 1923	719	Beautifully decorated limestone cavern, believed to be largest yet discovered
Craters of the Moon.....	Idaho.....	Oct. 25, 1923	51,200	Best example of fissure lava flows; volcanic region with weird landscape effects
Wupatki.....	Arizona.....	May 2, 1924	2,234	Prehistoric dwellings of ancestors of Hopi Indians
Glacier Bay.....	Alaska.....	July 23, 1923	1,164,800	Contains tidewater glaciers of first rank
		Dec. 9, 1924*		
		Feb. 27, 1925		

**MONUMENTS ADMINISTERED BY THE DEPARTMENT OF AGRICULTURE**

Total area (14 monuments).....			<i>Acres</i> 383,360	
Gila Cliff Dwellings.....	New Mexico..	Nov. 16, 1907	160	Numerous cliff-dweller ruins of much interest and in good preservation
Tonto.....	Arizona.....	Dec. 19, 1907	4 640	Do.
Jewel Cave.....	South Dakota..	Feb. 7, 1908	1,280	Limestone cavern of much beauty and considerable extent, limits of which are as yet unknown.
Wheeler.....	Colorado.....	Dec. 7, 1908	300	Of much interest from geological standpoint as example of eccentric erosion and extinct volcanic action. Of much scenic beauty.
Mount Olympus.....	Washington...	{Mar. 2, 1909 Apr. 17, 1912 May 11, 1915}	{299,370	{Contains many objects of great and unusual scientific interest, including many glaciers. Is summer range and breeding ground of the Olympic elk.
Oregon Caves.....	Oregon.....	July 12, 1909	480	Extensive caves in limestone formation of much beauty; magnitude not entirely ascertained.
Devils postpile.....	California.....	July 6, 1911	800	Spectacular mass of hexagonal basaltic columns, like an immense pile of posts. Said to rank with famous Giant's Causeway in Ireland.
Walnut Canyon.....	Arizona.....	Nov. 30, 1915	960	Contains cliff dwellings of much scientific and popular interest.
Bandelier.....	New Mexico.....	Feb. 11, 1916	22,075	Vast numbers of cliff-dweller ruins, with artificial caves, stone sculpture, and other relics of prehistoric life.
Old Kasaan.....	Alaska.....	Oct. 25, 1916	38	Abandoned Indian village in which there are numerous remarkable totem poles and other objects of historical interest.
Lehman Caves.....	Nevada.....	Jan. 24, 1922	593	Limestone caverns of much beauty and of scientific interest and importance
Timpanogos Cave.....	do.....	Oct. 14, 1922	250	Limestone cavern.
Chiricahua.....	Arizona.....	Apr. 18, 1924	4,480	Natural rock formations within Coronado National Forest.
Lava Beds.....	California.....	Nov. 21, 1925	45,967	Interesting ice caves. Battleground of Modoc Indian War, 1873.

**MONUMENTS ADMINISTERED BY THE WAR DEPARTMENT**

Total area (13 monuments).....			<i>Acres</i> 222	
Chalmette.....	Louisiana.....	May 24, 1907	17	Erected in memory of the Battle of New Orleans which was fought on Jan. 8, 1815.
Big Hole Battle Field.....	Montana.....	June 23, 1910	5	Site of battle field on which battle was fought Aug. 9, 1877, between a small force of United States troops and a much larger force of Nez Perce Indians, resulting in rout for the Indians.

\* Estimated.

Donated to United States

## NATIONAL PARKS AND MONUMENTS

No. 154.—NATIONAL PARKS AND NATIONAL MONUMENTS—Continued  
 MONUMENTS ADMINISTERED BY THE WAR DEPARTMENT—Continued

Name	Location	When established	Acres	Description
			<i>Acres.</i>	
Cabrillo.....	California.....	{Oct. 14, 1913} {May 12, 1926}	1	Of historic interest because of discovery of the territory now partly embraced in the State of California by Juan Rodriguez Cabrillo, who at this point first sighted land on Sept. 28, 1542.
Mound City Group	Ohio.....	Mar. 2, 1923	57	
Fort Wood.....	New York.....	Oct. 15, 1924	2 5	Famous group of prehistoric mounds in Camp Sherman Military Reservation.
Castle Pinckney..	South Carolina	do.....	3 5	Site of the Statue of Liberty.
Fort Pulaski.....	Georgia.....	do.....	20	Fortification built in 1810 to replace a Revolutionary fort.
Fort Marion.....	Florida.....	do.....	18	Built in 1810 to replace Fort Greene of the Revolution.
Fort Matanzas....	do.....	do.....	1	Fort built by Spaniards in 1656.
Meriwether Lewis..	Tennessee.....	Feb. 2, 1925	50	Relic of Spanish invasion.
Fort Niagara.....	New York.....	Sept. 5, 1925	.0074	Contains grave of Captain Lewis of the Lewis and Clark expedition.
Fort McHenry.....	Maryland.....	Mar. 3, 1925	47	Commemorates erection and dedication of cross by a French Jesuit missionary on Good Friday, 1688.
White Plains Battle Field	New York.....	May 18, 1926	None,	Restored and preserved as birthplace of "Star Spangled Banner."
				Memorial tablet to indicate the position of the Revolutionary army under the command of General Washington.

Source: Annual Report of the Secretary of the Interior.

## 7. CLIMATE

### No. 155.—CLIMATIC CONDITIONS: SELECTED CITIES IN THE UNITED STATES

NOTE.—The table presented herewith shows the more important facts concerning the weather at a number of points in the United States selected with a view to covering all the important climatic sections and including at least one from each State. The temperature extremes include the entire period of observations to Dec 31, 1923. Other data are long-time averages covering periods ranging from 20 to more than 50 years. Temperatures are Fahrenheit

Station	Jan	Feb.	Mar	Apr	May	June	July	Aug.	Sept	Oct	Nov.	Dec.	An- nual
<b>ALABAMA, MONTGOMERY</b>													
Temperature:													
Monthly mean.....	48.2	51.6	57.8	65.3	73.4	79.6	81.7	80.8	76.3	66.6	55.8	49.4	65.5
Daily mean maximum.....	56.9	60.8	67.6	75.5	83.6	89.5	91.0	89.9	85.8	76.8	65.8	58.4	75.1
Daily mean minimum.....	39.5	42.3	47.9	55.1	63.2	69.8	72.3	71.7	66.6	56.4	45.8	40.4	55.9
Highest on record.....	80	84	90	92	99	106	107	103	106	96	85	80	107
Lowest on record.....	5	-5	21	30	43	48	61	58	45	31	18	8	-5
Precipitation:													
Total, inches.....	5.20	5.45	5.99	4.30	3.84	3.80	4.86	4.23	2.99	2.46	3.23	4.84	51.19
Days with 0.01 inch or more.....	11	10	10	8	9	11	12	11	8	6	7	10	113
Total snowfall, inches.....	0.2	0.3	( <sup>1</sup> )	( <sup>1</sup> )	0	0	0	0	0	0	( <sup>1</sup> )	0.3	0.8
Percentage of possible sun- shine.....	50	54	60	66	71	73	62	66	66	66	66	45	62
Number of clear days.....	8	9	12	12	13	10	8	9	14	16	14	10	135
Hourly wind velocity, miles.....	6.6	7.2	7.2	6.6	5.7	5.3	5.0	4.6	5.3	5.4	5.7	6.2	5.9
<b>ARIZONA, PHOENIX</b>													
Temperature.													
Monthly mean.....	51.2	55.1	60.7	67.0	75.0	84.5	89.8	88.5	82.7	70.6	59.7	52.0	69.7
Daily mean maximum.....	63.7	68.0	74.1	81.6	90.1	100.2	103.1	101.0	96.4	85.2	73.9	64.9	83.5
Daily mean minimum.....	38.7	42.2	47.3	52.5	59.8	68.7	76.4	76.0	69.0	56.0	45.5	39.0	55.9
Highest on record.....	84	92	95	103	114	119	118	113	112	105	96	80	119
Lowest on record.....	16	24	30	35	39	49	63	58	47	36	28	22	16
Precipitation:													
Total, inches.....	0.80	0.77	0.68	0.40	0.12	0.07	1.07	0.95	0.75	0.47	0.70	1.00	7.78
Days with 0.01 inch or more.....	4	4	4	2	1	1	6	6	3	2	3	3	39
Total snowfall, inches.....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	0	0	0	0	0	0	0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Percentage of possible sun- shine.....	72	77	80	87	91	93	82	83	89	89	83	77	84
Number of clear days.....	17	15	17	21	23	25	17	18	22	23	20	19	237
Hourly wind velocity, miles.....	4.0	4.6	5.0	5.4	4.9	5.0	5.0	4.6	4.4	4.2	3.9	3.8	4.6
<b>ARKANSAS, LITTLE ROCK</b>													
Temperature.													
Monthly mean.....	41.4	44.9	53.0	62.1	70.3	77.4	80.9	79.8	74.1	63.6	52.1	44.2	62.0
Daily mean maximum.....	49.4	53.7	62.3	71.3	79.4	86.4	89.8	88.8	83.3	73.3	61.3	52.2	70.9
Daily mean minimum.....	33.4	36.0	43.8	52.8	61.2	68.4	71.9	70.7	64.9	53.9	42.9	36.2	53.0
Highest on record.....	78	87	89	94	96	102	106	105	104	93	84	78	106
Lowest on record.....	-8	-12	14	28	39	51	58	52	41	27	10	5	-12
Precipitation:													
Total, inches.....	4.73	3.84	4.62	5.19	4.78	3.76	3.50	3.75	3.17	2.71	4.19	4.14	48.38
Days with 0.01 inch or more.....	9	9	10	10	9	10	10	9	7	7	8	9	107
Total snowfall, inches.....	2.8	1.5	0.4	( <sup>1</sup> )	0	0	0	0	0	0	0.1	1.2	6.0
Percentage of possible sun- shine.....	46	53	56	62	65	71	70	71	72	70	60	48	62
Number of clear days.....	10	9	11	11	11	11	11	13	15	17	13	11	143
Hourly wind velocity, miles.....	9.7	10.4	10.9	10.3	8.8	7.4	7.2	6.6	7.2	7.8	8.6	8.9	8.6
<b>CALIFORNIA, FRESNO</b>													
Temperature:													
Monthly mean.....	46.2	51.1	55.0	60.2	67.1	75.8	82.1	80.7	73.4	64.0	54.2	46.2	63.0
Daily mean maximum.....	54.5	60.8	65.7	73.4	81.8	92.0	99.4	98.0	89.1	78.0	65.9	54.5	76.1
Daily mean minimum.....	37.9	41.4	44.4	47.0	52.4	59.5	64.8	63.3	57.6	50.1	42.5	37.9	49.9
Highest on record.....	73	83	87	101	110	112	115	113	111	100	85	76	115
Lowest on record.....	17	24	28	34	38	42	50	51	42	36	27	23	17
Precipitation:													
Total, inches.....	1.73	1.43	1.58	0.95	0.44	0.08	0.01	0.01	0.21	0.57	0.93	1.45	9.39
Days with 0.01 inch or more.....	8	7	8	3	2	1	0	0	1	3	4	7	44
Total snowfall, inches.....	0	0	0	0	0	0	0	0	0	0	0	0	0
Percentage of possible sun- shine.....	44	60	64	82	87	94	96	97	90	87	70	47	76
Number of clear days.....	9	12	14	19	21	25	29	29	25	23	17	10	233
Hourly wind velocity, miles.....	4.5	4.8	5.7	6.8	7.8	8.3	7.4	6.7	5.9	4.7	4.1	4.1	5.9

<sup>1</sup>Trace.

## No. 155.—CLIMATIC CONDITIONS, ETC.—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
<b>CALIFORNIA, LOS ANGELES</b>													
<b>Temperature:</b>													
Monthly mean	54.6	55.5	57.5	59.4	62.2	66.4	70.2	71.1	69.0	65.3	60.9	56.6	62.4
Daily mean maximum	64.3	65.1	67.3	69.1	71.8	76.7	81.4	82.3	80.1	76.7	72.0	66.8	72.8
Daily mean minimum	44.9	46.0	47.8	49.7	52.6	56.1	59.1	60.0	57.9	54.0	49.8	46.3	52.0
Highest on record	90	92	99	100	103	105	109	106	108	102	96	89	109
Lowest on record	28	28	31	36	40	46	49	49	44	40	34	30	28
<b>Precipitation</b>													
Total, inches	3.10	3.07	2.78	1.04	0.45	0.08	0.01	0.02	0.17	0.68	1.20	2.63	15.23
Days with 0.01 inch or more	7	6	7	4	3	1	0	0	1	3	3	6	41
Total snowfall, inches	(1)	(1)	0	0	0	0	0	0	0	0	(4)	(4)	(1)
Percentage of possible sunshine	67	68	67	68	62	71	77	79	76	76	78	73	72
Number of clear days	14	12	12	11	10	11	14	16	16	17	17	16	166
Hourly wind velocity, miles	5.1	5.3	5.3	5.2	5.2	5.0	4.7	4.6	4.5	4.5	4.6	5.0	4.9
<b>CALIFORNIA, SAN DIEGO</b>													
<b>Temperature:</b>													
Monthly mean	54.3	55.1	56.7	58.5	60.8	63.9	67.2	68.7	67.1	63.7	59.7	56.0	61.0
Daily mean maximum	62.2	62.5	63.9	64.8	66.2	69.0	72.3	73.9	72.9	70.6	67.7	64.4	67.5
Daily mean minimum	46.5	47.7	49.6	52.2	55.3	58.7	62.1	63.6	61.3	56.7	51.7	47.7	54.4
Highest on record	85	89	99	96	98	94	93	93	110	96	93	84	110
Lowest on record	25	34	36	39	45	50	54	54	50	44	36	32	25
<b>Precipitation:</b>													
Total, inches	2.06	2.03	1.72	0.77	0.35	0.05	0.03	0.04	0.08	0.54	0.76	1.87	10.30
Days with 0.01 inch or more	7	7	7	4	3	1	0	1	1	3	4	6	44
Total snowfall, inches	0	0	0	0	0	0	0	0	0	0	0	0	0
Percentage of possible sunshine	67	67	66	69	58	62	67	72	72	73	76	74	68
Number of clear days	16	14	14	15	12	14	17	19	19	18	18	18	194
Hourly wind velocity, miles	5.1	5.8	6.2	6.4	6.4	6.1	5.9	5.7	5.7	5.3	5.0	5.0	5.7
<b>CALIFORNIA, SAN FRANCISCO</b>													
<b>Temperature:</b>													
Monthly mean	49.9	52.2	54.2	55.0	56.8	58.5	58.5	59.1	60.9	60.5	56.3	51.3	56.1
Daily mean maximum	55.0	57.8	60.3	61.2	63.0	65.1	64.7	65.0	67.7	67.5	62.1	56.2	62.1
Daily mean minimum	44.9	46.6	48.1	48.8	50.5	51.9	52.3	53.3	54.2	53.5	50.5	46.3	50.1
Highest on record	78	80	86	89	97	100	98	92	101	96	83	72	101
Lowest on record	29	33	33	40	42	46	47	46	47	45	38	34	29
<b>Precipitation:</b>													
Total, inches	4.54	3.85	3.14	1.61	0.80	0.18	0.02	0.01	0.45	1.12	2.35	3.95	22.02
Days with 0.01 inch or more	12	13	10	6	4	2	0	0	2	4	6	11	70
Total snowfall, inches	(1)	(1)	(1)	0	0	0	0	0	0	0	0	(1)	(2)
Percentage of possible sunshine	52	54	59	70	70	75	69	63	70	69	60	54	64
Number of clear days	11	11	12	15	15	19	15	14	16	17	18	10	168
Hourly wind velocity, miles	7.4	7.5	8.8	10.1	11.2	12.6	13.1	12.1	10.1	7.8	6.7	6.8	9.5
<b>COLORADO, DENVER</b>													
<b>Temperature:</b>													
Monthly mean	29.8	32.7	39.3	47.1	56.2	66.3	72.2	70.7	62.9	51.2	39.8	32.3	50.0
Daily mean maximum	42.2	44.9	51.6	59.1	68.5	79.7	85.7	84.0	76.9	64.8	52.3	44.7	62.9
Daily mean minimum	17.3	20.5	27.1	35.0	43.9	52.9	58.7	57.4	48.9	37.4	27.2	19.3	37.2
Highest on record	76	77	82	86	92	99	102	105	97	90	79	74	105
Lowest on record	-29	-22	-11	4	19	32	42	40	21	-2	-18	-25	-29
<b>Precipitation:</b>													
Total, inches	0.40	0.53	1.04	2.06	2.21	1.38	1.18	1.43	0.99	1.05	0.55	0.73	14.05
Days with 0.01 inch or more	4	6	7	9	10	7	9	9	6	5	4	5	81
Total snowfall, inches	4.8	7.6	9	9	2.4	(1)	0	0	0.6	4.2	5.7	9.2	53.6
Percentage of possible sunshine	67	67	64	62	60	69	67	67	71	71	68	64	66
Number of clear days	15	12	11	9	9	12	11	11	15	16	15	15	151
Hourly wind velocity, miles	7.6	7.6	8.2	8.4	7.7	7.3	6.9	6.6	6.7	7.0	7.2	7.3	7.4
<b>CONNECTICUT, HARTFORD</b>													
<b>Temperature:</b>													
Monthly mean	25.5	27.2	35.0	46.7	57.5	67.1	71.6	68.9	61.7	51.2	39.5	29.8	48.5
Daily mean maximum	35.3	33.9	44.9	56.6	68.2	76.7	82.3	79.7	73.0	63.5	49.2	37.7	58.4
Daily mean minimum	20.0	17.4	27.9	38.1	48.7	56.7	63.2	60.8	53.8	44.3	33.8	23.9	40.7
Highest on record	67	61	82	90	94	98	100	100	95	91	74	67	100
Lowest on record	-12	-14	4	11	32	40	48	43	32	25	16	-18	-18
<b>Precipitation:</b>													
Total, inches	3.94	3.83	3.90	3.36	3.60	3.08	4.37	4.29	3.49	3.52	3.55	3.97	44.90
Days with 0.01 inch or more	12	10	12	12	12	10	11	10	9	8	10	10	126
Total snowfall, inches	8.7	13.4	6.7	1.8	0	0	0	0	0	0	1.4	8.4	40.4
Percentage of possible sunshine	45	54	55	52	53	56	56	54	54	51	46	44	52
Number of clear days	8	9	10	8	9	8	7	8	10	11	7	8	103
Hourly wind velocity, miles	8.0	8.1	8.6	8.6	7.9	7.1	6.9	6.3	6.2	6.9	7.8	7.4	7.5

1 Trace.

## No. 155.—CLIMATIC CONDITIONS, ETC.—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
DELAWARE, WILMINGTON													
Temperature.													
Monthly mean.....	32.8	31.9	42.3	52.9	63.8	71.6	76.8	74.6	68.1	57.4	45.4	34.8	54.4
Daily mean maximum.....	40.0	39.5	51.2	63.1	74.2	81.8	86.1	83.6	77.2	66.3	53.3	41.7	63.2
Daily mean minimum.....	25.3	24.3	33.0	42.8	53.4	61.3	67.5	65.6	58.9	48.4	37.5	27.8	45.5
Highest on record.....	70	69	80	97	98	102	106	107	98	90	77	70	107
Lowest on record.....	-10	-12	6	11	31	42	50	47	33	25	12	-7	-12
Precipitation:													
Total, inches.....	3.35	3.32	3.54	3.38	3.65	3.91	5.03	4.84	3.46	3.18	2.88	3.84	44.38
Days with 0.01 inch or more.....	9	8	9	9	9	9	9	9	6	6	7	8	98
Total snowfall, inches.....	6.4	6.2	4.1	1.1	0	0	0	0	0	(1)	0.4	4.7	22.9
D. C., WASHINGTON													
Temperature.													
Monthly mean.....	33.4	35.3	42.6	53.3	63.7	72.2	76.8	75.0	68.1	57.4	45.2	36.6	55.0
Daily mean maximum.....	41.1	43.5	51.7	63.2	73.2	81.8	86.3	84.1	77.5	67.2	54.0	44.2	64.0
Daily mean minimum.....	25.7	27.2	33.6	43.6	54.1	62.7	67.3	66.0	58.7	47.5	36.5	29.0	46.0
Highest on record.....	76	78	93	95	97	102	104	106	104	93	80	74	106
Lowest on record.....	-14	-15	4	15	33	43	52	49	36	26	12	-13	-15
Precipitation:													
Total, inches.....	3.55	3.27	3.75	3.27	3.70	4.13	4.71	4.01	3.24	2.84	2.37	3.32	42.16
Days with 0.01 inch or more.....	12	10	12	11	12	11	11	11	8	9	9	10	126
Total snowfall, inches.....	6.7	6.8	4.7	0.6	0	0	0	0	0	(1)	1.1	3.8	23.7
Percentage of possible sunshine.....	46	54	54	58	61	62	64	61	63	61	56	51	58
Number of clear days.....	9	9	9	11	11	11	11	11	13	14	11	11	131
Hourly wind velocity, miles.....	7.0	8.0	8.0	8.0	7.0	6.0	5.0	5.0	5.0	6.0	7.0	7.0	7.0
FLORIDA, JACKSONVILLE													
Temperature.													
Monthly mean.....	55.4	58.0	62.6	68.7	75.0	79.9	82.1	81.7	78.3	71.1	62.2	56.3	69.3
Daily mean maximum.....	64.1	66.9	71.5	77.6	83.5	87.9	90.2	89.6	85.5	78.6	70.7	65.0	77.6
Daily mean minimum.....	46.7	49.1	53.6	59.7	66.4	71.8	74.0	73.7	71.1	63.6	53.7	47.5	60.9
Highest on record.....	81	86	91	92	98	101	104	101	99	95	86	83	104
Lowest on record.....	15	10	26	34	46	54	66	64	49	37	26	14	10
Precipitation:													
Total, inches.....	2.80	2.97	2.91	2.38	4.02	5.33	6.71	5.81	7.35	4.46	1.98	3.02	49.74
Days with 0.01 inch or more.....	9	9	8	7	9	12	15	15	13	10	8	8	123
Total snowfall, inches.....	0	0	0	0	0	0	0	0	0	0	0	0	0
Percentage of possible sunshine.....	56	57	67	73	71	65	63	63	60	56	62	52	62
Number of clear days.....	10	10	13	13	13	8	8	9	10	12	12	11	129
Hourly wind velocity, miles.....	8.3	8.8	9.1	9.0	8.4	8.0	7.9	7.4	7.8	8.6	8.1	8.0	8.3
FLORIDA, MIAMI													
Temperature.													
Monthly mean.....	66.5	67.1	70.2	72.8	76.4	80.0	81.0	81.4	80.1	77.0	71.8	68.0	74.4
Daily mean maximum.....	74.4	74.3	76.7	79.7	82.5	85.2	86.8	87.1	85.9	82.8	77.3	75.5	80.7
Daily mean minimum.....	62.1	60.0	63.8	67.4	70.9	74.4	75.8	76.4	75.2	72.7	66.0	62.9	69.0
Highest on record.....	85	88	92	93	94	94	96	96	95	93	88	91	96
Lowest on record.....	29	27	34	45	50	61	67	67	62	52	36	32	27
Precipitation:													
Total, inches.....	2.52	1.83	2.17	3.09	6.22	6.86	5.42	6.17	8.34	8.44	2.91	1.69	55.66
Days with 0.01 inch or more.....	9	6	7	7	11	12	16	14	17	16	11	7	133
Total snowfall, inches.....	0	0	0	0	0	0	0	0	0	0	0	0	0
Percentage of possible sunshine.....	64	69	72	72	66	61	66	70	64	60	60	62	66
Number of clear days.....	11	11	12	10	7	6	5	6	6	6	9	10	99
Hourly wind velocity, miles.....	9.3	9.4	9.7	9.9	9.1	7.6	7.2	7.8	8.0	9.0	10.7	8.5	8.8
FLORIDA, TAMPA													
Temperature.													
Monthly mean.....	60.4	61.9	66.8	70.9	76.3	80.2	81.2	81.5	79.9	74.3	66.9	61.1	71.8
Daily mean maximum.....	69.3	70.8	76.1	80.3	85.4	88.6	89.1	89.4	88.0	82.5	75.8	70.0	80.4
Daily mean minimum.....	51.5	53.1	57.6	61.6	67.2	71.8	73.3	73.6	71.9	66.1	57.9	52.1	63.1
Highest on record.....	83	86	92	91	94	96	96	97	96	93	87	84	98
Lowest on record.....	23	22	32	38	52	59	65	66	54	43	32	19	19
Precipitation:													
Total, inches.....	2.69	2.56	2.43	2.01	2.99	7.25	7.95	8.18	6.42	3.09	1.72	2.07	49.36
Days with 0.01 inch or more.....	7	7	6	5	7	14	18	18	15	8	5	7	117
Total snowfall, inches.....	0	0	0	0	0	0	0	0	0	0	0	0	0
Percentage of possible sunshine.....	61	65	72	75	73	67	63	64	66	65	65	59	66
Number of clear days.....	11	11	14	14	12	8	6	5	8	12	13	12	126
Hourly wind velocity, miles.....	6.9	7.4	7.4	7.4	6.9	6.2	5.7	5.5	6.2	7.2	6.8	6.6	6.7

1 Trace.

## No. 155.—CLIMATIC CONDITIONS, ETC.—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
<b>GEORGIA, ATLANTA</b>													
Temperature.													
Monthly, mean	42.6	45.3	52.0	61.0	69.9	76.0	78.1	77.0	72.4	63.0	52.1	44.7	61.2
Daily mean maximum	50.2	53.5	60.9	70.4	78.4	85.2	86.7	85.1	80.6	71.9	60.8	52.5	69.8
Daily mean minimum	35.0	37.3	43.0	51.7	60.4	66.8	69.5	69.0	64.1	54.1	43.3	36.8	52.6
Highest on record	75	78	87	93	97	100	101	100	102	94	82	73	102
Lowest on record	-2	-8	8	25	38	39	58	55	43	28	14	1	-8
Precipitation.													
Total, inches	4.95	4.79	5.30	3.61	3.47	3.74	4.65	4.45	2.99	2.59	3.03	4.70	48.27
Days with 0.01 inch or more	11	11	11	10	9	11	13	13	8	7	8	11	123
Total snowfall, inches	0.9	1.1	0.1	( <sup>1</sup> )	0	0	0	0	0	( <sup>1</sup> )	( <sup>1</sup> )	0.6	2.7
Percentage of possible sunshine	47	53	56	64	68	69	60	58	66	65	63	47	60
Number of clear days	9	9	12	12	12	10	8	9	13	16	13	11	134
Hourly wind velocity, miles	12.0	12.2	12.0	11.0	9.4	8.3	7.9	7.7	8.6	9.9	11.0	11.6	10.1
<b>IDAHO, BOISE</b>													
Temperature.													
Monthly, mean	29.8	34.8	42.7	50.4	57.1	65.3	72.9	71.8	61.9	51.1	41.0	32.1	50.9
Daily mean maximum	37.7	43.3	52.7	62.4	70.0	79.5	88.9	87.7	76.4	63.7	50.7	39.9	62.7
Daily mean minimum	21.9	26.3	32.6	38.4	44.3	51.1	56.9	55.9	47.4	38.5	31.3	24.3	39.1
Highest on record	62	69	83	92	100	107	113	121	103	95	85	67	121
Lowest on record	-28	-12	5	17	25	30	40	32	23	16	-10	-18	-28
Precipitation.													
Total, inches	1.73	1.44	1.35	1.18	1.43	0.92	0.24	0.19	0.53	1.24	1.28	1.57	13.10
Days with 0.01 inch or more	13	11	11	8	7	6	2	2	4	6	9	11	90
Total snowfall, inches	7.7	5.8	3.3	0.9	( <sup>1</sup> )	0	0	0	0	0.1	1.5	5.3	24.6
Percentage of possible sunshine	38	48	57	66	71	79	87	86	79	69	50	40	64
Number of clear days	5	6	7	9	11	14	21	21	17	14	8	6	139
Hourly wind velocity, miles	4.9	5.2	6.1	6.3	6.1	5.3	4.9	4.5	4.5	4.3	4.6	4.4	5.1
<b>ILLINOIS, CHICAGO</b>													
Temperature.													
Monthly, mean	25.1	27.4	36.3	47.7	58.5	68.2	73.9	72.8	66.3	55.1	41.2	30.0	50.2
Daily mean maximum	31.5	34.1	43.0	54.9	66.2	75.6	80.5	79.0	72.9	62.0	47.5	36.0	58.9
Daily mean minimum	18.7	20.8	29.5	40.6	50.8	60.7	67.2	68.6	59.7	48.3	35.0	24.0	43.5
Highest on record	65	68	81	88	94	99	103	102	98	87	75	68	103
Lowest on record	-20	-21	-12	17	27	40	50	47	32	14	-2	-23	-23
Precipitation.													
Total, inches	1.90	2.24	2.58	2.78	3.54	3.30	3.33	3.21	3.14	2.53	2.37	2.04	32.86
Days with 0.01 inch or more	11	10	12	11	12	11	9	9	9	9	10	12	123
Total snowfall, inches	9.9	9.4	4.9	0.9	( <sup>1</sup> )	0	0	0	0	0.1	1.7	6.8	33.7
Percentage of possible sunshine	46	51	54	59	64	71	73	70	65	60	47	41	58
Number of clear days	8	8	8	9	11	10	13	13	12	12	8	7	119
Hourly wind velocity, miles	16.0	16.0	17.0	17.0	15.0	13.0	12.0	12.0	14.0	15.0	16.0	16.0	15.0
<b>INDIANA, INDIANAPOLIS</b>													
Temperature.													
Monthly, mean	28.4	31.1	40.0	52.1	62.9	71.6	75.7	73.7	66.9	55.7	42.3	32.2	52.7
Daily mean maximum	35.7	39.0	48.4	61.2	72.4	81.1	85.4	83.3	76.6	64.9	50.0	39.0	61.4
Daily mean minimum	21.0	23.2	31.7	42.9	53.5	62.0	66.1	64.1	57.3	46.5	34.6	25.4	44.1
Highest on record	70	72	84	90	96	100	106	103	98	89	76	68	106
Lowest on record	-25	-18	0	19	31	39	48	44	30	22	-5	-15	-25
Precipitation.													
Total, inches	2.95	2.73	3.93	3.62	3.89	3.62	3.34	3.31	3.40	2.78	3.35	2.98	39.90
Days with 0.01 inch or more	13	11	13	12	13	11	10	9	9	9	10	12	132
Total snowfall, inches	6.8	5.3	3.8	0.9	0.1	0	0	0	0	( <sup>1</sup> )	1.2	5.1	23.2
Percentage of possible sunshine	42	47	48	53	60	66	70	66	67	61	52	40	56
Number of clear days	6	7	6	7	9	8	10	11	12	12	8	6	102
Hourly wind velocity, miles	12.0	12.1	12.5	12.1	10.5	9.1	8.4	7.9	8.8	9.8	11.3	11.6	10.5
<b>IOWA, DES MOINES</b>													
Temperature.													
Monthly, mean	20.1	23.7	35.9	50.1	61.3	70.6	75.4	73.1	65.6	53.4	38.4	26.0	49.5
Daily mean maximum	29.0	32.8	45.2	60.2	71.4	80.4	85.7	83.6	76.0	63.7	47.3	34.1	59.1
Daily mean minimum	11.3	14.6	26.6	40.1	51.3	60.8	65.1	62.7	55.1	43.1	29.5	17.8	39.8
Highest on record	65	75	88	92	98	102	109	110	99	91	79	69	110
Lowest on record	-30	-26	-10	11	26	37	48	40	26	7	-10	-21	-30
Precipitation.													
Total, inches	1.07	1.12	1.78	2.91	4.56	4.76	3.50	3.52	3.67	2.50	1.43	1.22	32.04
Days with 0.01 inch or more	8	8	9	11	12	11	9	9	9	9	7	8	109
Total snowfall, inches	8.8	7.2	5.4	1.3	0.5	0	0	0	0	0.2	2.2	7.9	33.5
Percentage of possible sunshine	53	56	56	58	61	66	73	71	63	63	54	50	60
Number of clear days	10	9	9	9	8	8	13	13	12	13	11	9	124
Hourly wind velocity, miles	7.9	8.4	9.0	9.5	8.4	7.1	6.3	6.0	6.9	7.4	7.7	7.6	7.7

<sup>1</sup> Trace.

## No. 155.—CLIMATIC CONDITIONS, ETC.—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
<b>KANSAS, DODGE CITY</b>													
Temperature													
Monthly mean	29.0	33.2	42.8	53.6	63.5	72.5	78.4	77.7	69.4	56.1	42.6	32.6	54.3
Daily mean maximum	40.7	45.7	56.0	66.8	75.8	84.4	91.1	91.0	82.6	69.3	55.6	44.6	67.0
Daily mean minimum	17.3	20.7	29.6	40.5	51.2	60.7	68.8	64.4	56.3	43.0	29.5	20.6	41.6
Highest on record	79	84	98	95	101	107	108	105	102	94	86	79	108
Lowest on record	-20	-26	-10	13	19	36	46	43	30	10	-13	-15	-26
Precipitation:													
Total, inches	0.41	0.77	0.89	1.94	2.89	3.30	3.14	2.67	1.90	1.30	0.73	0.57	20.51
Days with 0.01 inch or more	4	5	5	7	10	9	9	7	5	5	4	3	74
Total snowfall, inches	3.7	5.7	3.8	1.0	( <sup>1</sup> )	0	0	0	0	0.3	1.2	3.3	19.0
Percentage of possible sunshine	65	66	66	66	65	71	74	77	73	75	71	67	70
Number of clear days	14	13	13	13	11	14	15	16	16	18	16	15	174
Hourly wind velocity, miles	10.1	10.8	12.6	13.6	12.9	12.2	10.9	10.4	11.2	11.1	10.1	10.2	11.3
<b>KENTUCKY, LOUISVILLE</b>													
Temperature													
Monthly mean	34.4	37.2	45.4	56.4	66.6	74.7	78.6	77.0	70.5	59.3	46.7	37.6	57.0
Daily mean maximum	42.0	45.4	54.2	65.9	76.4	84.3	88.2	86.7	80.4	69.2	55.1	44.8	66.0
Daily mean minimum	26.8	28.9	36.6	46.8	56.9	65.1	68.9	67.4	60.5	49.4	38.3	30.4	48.0
Highest on record	74	78	88	91	98	101	107	105	102	91	79	74	107
Lowest on record	-20	-14	3	21	33	43	54	47	36	23	4	-7	-20
Precipitation													
Total, inches	4.00	3.55	4.39	3.88	3.72	3.82	3.70	3.42	2.78	2.65	3.61	3.74	43.26
Days with 0.01 inch or more	12	11	12	12	11	11	10	9	8	8	9	11	124
Total snowfall, inches	4.8	4.3	2.3	0.3	( <sup>1</sup> )	0	0	0	0	( <sup>1</sup> )	0.3	3.2	15.2
Percentage of possible sunshine	42	49	52	56	62	68	70	69	68	66	54	40	58
Number of clear days	7	7	8	9	10	9	12	12	13	14	10	7	118
Hourly wind velocity, miles	9.5	10.3	10.5	9.6	7.9	7.4	6.7	6.4	6.8	7.5	8.8	9.2	8.4
<b>LOUISIANA, NEW ORLEANS</b>													
Temperature													
Monthly mean	54.2	57.3	62.8	68.8	75.4	80.6	82.4	82.2	79.2	71.0	61.6	55.6	69.3
Daily mean maximum	61.8	65.1	70.6	76.5	83.0	87.8	89.3	89.0	86.0	78.1	69.1	63.2	76.6
Daily mean minimum	46.6	49.5	55.0	61.1	67.8	73.4	75.4	75.4	72.5	64.0	54.0	48.1	61.9
Highest on record	82	83	86	90	96	102	102	100	99	94	89	83	102
Lowest on record	15	7	30	38	52	58	66	63	54	40	29	19	7
Precipitation													
Total, inches	4.34	4.25	4.72	5.24	4.60	5.88	6.37	5.80	5.03	3.30	3.14	4.79	57.46
Days with 0.01 inch or more	10	9	9	7	9	13	15	14	10	7	7	10	120
Total snowfall, inches	0.1	0.2	( <sup>1</sup> )	0	0	0	0	0	0	0	0	( <sup>1</sup> )	0.3
Percentage of possible sunshine	48	50	57	60	66	60	54	54	61	64	56	46	56
Number of clear days	10	9	11	11	12	9	7	8	11	16	13	10	127
Hourly wind velocity, miles	8.6	9.1	9.1	8.8	7.4	6.5	6.0	5.9	7.2	7.6	8.1	8.5	7.7
<b>MAINE, PORTLAND</b>													
Temperature													
Monthly mean	22.4	23.8	31.8	43.0	53.3	62.5	68.1	66.4	59.6	49.9	38.0	27.6	45.5
Daily mean maximum	30.1	31.6	39.2	50.4	61.2	70.8	76.1	74.0	67.3	57.3	44.0	34.4	53.1
Daily mean minimum	14.7	16.0	24.4	35.7	45.4	54.2	60.1	58.8	51.9	42.6	31.4	20.8	38.0
Highest on record	65	58	78	81	94	96	103	95	94	84	72	65	103
Lowest on record	-18	-17	-7	9	27	38	48	45	32	22	-6	-21	-21
Precipitation													
Total, inches	3.97	4.00	3.86	3.38	3.40	3.28	3.24	3.14	3.30	3.14	3.46	3.97	41.94
Days with 0.01 inch or more	12	11	13	11	12	11	12	11	10	10	11	11	135
Total snowfall, inches	18.2	20.9	13.1	4.8	( <sup>1</sup> )	0	0	0	( <sup>1</sup> )	( <sup>1</sup> )	5.1	12.4	74.5
Percentage of possible sunshine	54	60	59	56	58	61	64	63	62	56	47	50	58
Number of clear days	10	10	10	9	9	9	10	11	12	11	9	10	120
Hourly wind velocity, miles	8.8	9.1	9.6	9.2	8.6	7.6	7.5	6.9	7.5	8.2	8.8	8.7	8.4
<b>MARYLAND, BALTIMORE</b>													
Temperature													
Monthly mean	33.8	35.4	42.3	53.6	64.4	72.7	77.2	75.5	68.5	58.2	46.3	37.2	55.4
Daily mean maximum	40.6	42.5	50.2	62.4	73.3	81.3	85.6	83.5	76.7	66.5	53.6	43.7	63.3
Daily mean minimum	27.0	28.3	34.5	44.8	55.5	64.0	68.8	67.5	60.2	49.8	39.0	30.6	47.5
Highest on record	74	78	88	94	96	101	104	105	101	92	79	73	105
Lowest on record	-6	-7	5	23	34	46	55	51	39	30	15	-3	-7
Precipitation													
Total, inches	3.50	3.39	3.71	3.34	3.54	3.88	4.64	4.37	3.37	2.89	2.56	3.37	42.56
Days with 0.01 inch or more	12	11	12	11	11	11	12	11	8	9	9	11	128
Total snowfall, inches	6.6	6.6	4.9	0.7	( <sup>1</sup> )	0	0	0	0	( <sup>1</sup> )	0.7	4.3	23.8
Percentage of possible sunshine	47	57	58	59	59	62	64	62	65	62	54	48	58
Number of clear days	9	9	9	9	10	9	10	10	12	13	10	10	120
Hourly wind velocity, miles	6.5	7.1	7.5	7.4	6.6	6.2	5.9	5.5	5.6	6.0	6.2	6.3	6.4

<sup>1</sup> Trace.



## No. 155.—CLIMATIC CONDITIONS, ETC.—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
<b>KANSAS, DODGE CITY</b>													
Temperature													
Monthly mean	29.0	33.2	42.8	53.6	63.5	72.5	78.4	77.7	69.4	56.1	42.6	32.6	54.3
Daily mean maximum	40.7	45.7	56.0	66.8	75.8	84.4	91.1	91.0	82.6	69.3	55.6	44.6	67.0
Daily mean minimum	17.3	20.7	29.6	40.5	51.2	60.7	68.8	64.4	56.3	43.0	29.5	20.6	41.6
Highest on record	79	84	98	95	101	107	108	105	102	94	86	79	108
Lowest on record	-20	-26	-10	13	19	36	46	43	30	10	-13	-15	-26
Precipitation:													
Total, inches	0.41	0.77	0.89	1.94	2.89	3.30	3.14	2.67	1.90	1.30	0.73	0.57	20.51
Days with 0.01 inch or more	4	5	5	7	10	9	9	7	5	5	4	3	74
Total snowfall, inches	3.7	5.7	3.8	1.0	( <sup>1</sup> )	0	0	0	0	0.3	1.2	3.3	19.0
Percentage of possible sunshine	65	66	66	66	65	71	74	77	73	75	71	67	70
Number of clear days	14	13	13	13	11	14	15	16	16	18	16	15	174
Hourly wind velocity, miles	10.1	10.8	12.6	13.6	12.9	12.2	10.9	10.4	11.2	11.1	10.1	10.2	11.3
<b>KENTUCKY, LOUISVILLE</b>													
Temperature													
Monthly mean	34.4	37.2	45.4	56.4	66.6	74.7	78.6	77.0	70.5	59.3	46.7	37.6	57.0
Daily mean maximum	42.0	45.4	54.2	65.9	76.4	84.3	88.2	86.7	80.4	69.2	55.1	44.8	66.0
Daily mean minimum	26.8	28.9	36.6	46.8	56.9	65.1	68.9	67.4	60.5	49.4	38.3	30.4	48.0
Highest on record	74	78	88	91	98	101	107	105	102	91	79	74	107
Lowest on record	-20	-14	3	21	33	43	54	47	36	23	4	-7	-20
Precipitation													
Total, inches	4.00	3.55	4.39	3.88	3.72	3.82	3.70	3.42	2.78	2.65	3.61	3.74	43.26
Days with 0.01 inch or more	12	11	12	12	11	11	10	9	8	8	9	11	124
Total snowfall, inches	4.8	4.3	2.3	0.3	( <sup>1</sup> )	0	0	0	0	( <sup>1</sup> )	0.3	3.2	15.2
Percentage of possible sunshine	42	49	52	56	62	68	70	69	68	66	54	40	58
Number of clear days	7	7	8	9	10	9	12	12	13	14	10	7	118
Hourly wind velocity, miles	9.5	10.3	10.5	9.6	7.9	7.4	6.7	6.4	6.8	7.5	8.8	9.2	8.4
<b>LOUISIANA, NEW ORLEANS</b>													
Temperature													
Monthly mean	54.2	57.3	62.8	68.8	75.4	80.6	82.4	82.2	79.2	71.0	61.6	55.6	69.3
Daily mean maximum	61.8	65.1	70.6	76.5	83.0	87.8	89.3	89.0	86.0	78.1	69.1	63.2	76.6
Daily mean minimum	46.6	49.5	55.0	61.1	67.8	73.4	75.4	75.4	72.5	64.0	54.0	48.1	61.9
Highest on record	82	83	86	90	96	102	102	100	99	94	89	83	102
Lowest on record	15	7	30	38	52	58	66	63	54	40	29	19	7
Precipitation													
Total, inches	4.34	4.25	4.72	5.24	4.60	5.88	6.37	5.80	5.03	3.30	3.14	4.79	57.46
Days with 0.01 inch or more	10	9	9	7	9	13	15	14	10	7	7	10	120
Total snowfall, inches	0.1	0.2	( <sup>1</sup> )	0	0	0	0	0	0	0	0	( <sup>1</sup> )	0.3
Percentage of possible sunshine	48	50	57	60	66	60	54	54	61	64	56	46	56
Number of clear days	10	9	11	11	12	9	7	8	11	16	13	10	127
Hourly wind velocity, miles	8.6	9.1	9.1	8.8	7.4	6.5	6.0	5.9	7.2	7.6	8.1	8.5	7.7
<b>MAINE, PORTLAND</b>													
Temperature													
Monthly mean	22.4	23.8	31.8	43.0	53.3	62.5	68.1	66.4	59.6	49.9	38.0	27.6	45.5
Daily mean maximum	30.1	31.6	39.2	50.4	61.2	70.8	76.1	74.0	67.3	57.3	44.0	34.4	53.1
Daily mean minimum	14.7	16.0	24.4	35.7	45.4	54.2	60.1	58.8	51.9	42.6	31.4	20.8	38.0
Highest on record	65	58	78	81	94	96	103	95	94	84	72	65	103
Lowest on record	-18	-17	-7	9	27	38	48	45	32	22	-6	-21	-21
Precipitation													
Total, inches	3.97	4.00	3.86	3.38	3.40	3.28	3.24	3.14	3.30	3.14	3.46	3.97	41.94
Days with 0.01 inch or more	12	11	13	11	12	11	12	11	10	10	11	11	135
Total snowfall, inches	18.2	20.9	13.1	4.8	( <sup>1</sup> )	0	0	0	( <sup>1</sup> )	( <sup>1</sup> )	5.1	12.4	74.5
Percentage of possible sunshine	54	60	59	56	58	61	64	63	62	56	47	50	58
Number of clear days	10	10	10	9	9	9	10	11	12	11	9	10	120
Hourly wind velocity, miles	8.8	9.1	9.6	9.2	8.6	7.6	7.5	6.9	7.5	8.2	8.8	8.7	8.4
<b>MARYLAND, BALTIMORE</b>													
Temperature													
Monthly mean	33.8	35.4	42.3	53.6	64.4	72.7	77.2	75.5	68.5	58.2	46.3	37.2	55.4
Daily mean maximum	40.6	42.5	50.2	62.4	73.3	81.3	85.6	83.5	76.7	66.5	53.6	43.7	63.3
Daily mean minimum	27.0	28.3	34.5	44.8	55.5	64.0	68.8	67.5	60.2	49.8	39.0	30.6	47.5
Highest on record	74	78	88	94	96	101	104	105	101	92	79	73	105
Lowest on record	-6	-7	5	23	34	46	55	51	39	30	15	-3	-7
Precipitation													
Total, inches	3.50	3.39	3.71	3.34	3.54	3.88	4.64	4.37	3.37	2.89	2.56	3.37	42.56
Days with 0.01 inch or more	12	11	12	11	11	11	12	11	8	9	9	11	128
Total snowfall, inches	6.6	6.6	4.9	0.7	( <sup>1</sup> )	0	0	0	0	( <sup>1</sup> )	0.7	4.3	23.8
Percentage of possible sunshine	47	57	58	59	59	62	64	62	65	62	54	48	58
Number of clear days	9	9	9	9	10	9	10	10	12	13	10	10	120
Hourly wind velocity, miles	6.5	7.1	7.5	7.4	6.6	6.2	5.9	5.5	5.6	6.0	6.2	6.3	6.4

<sup>1</sup> Trace.

## No. 155.—CLIMATIC CONDITIONS, ETC.—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
<b>MONTANA, HELENA</b>													
Temperature													
Monthly mean	20.2	23.0	32.4	43.5	51.6	59.2	65.7	65.0	56.6	44.9	33.2	24.2	43.3
Daily mean maximum	28.3	31.6	41.5	53.6	62.2	70.0	77.3	77.4	68.3	54.8	41.3	31.8	53.2
Daily mean minimum	12.1	14.4	23.2	33.4	41.0	48.4	54.1	52.7	44.8	34.9	25.0	16.7	33.4
Highest on record	63	65	73	86	95	102	103	98	92	84	71	64	103
Lowest on record	-42	-41	-20	3	22	31	36	29	26	-1	-22	-40	-42
Precipitation													
Total, inches	0.87	0.65	0.79	1.12	2.29	2.34	1.14	0.77	1.25	0.89	0.74	0.78	13.63
Days with 0.01 inch or more	9	8	8	9	12	12	8	6	7	6	6	8	99
Total snowfall, inches	10.9	8.7	9.2	5.9	2.2	( <sup>1</sup> )	0	( <sup>1</sup> )	0.6	4.2	6.8	8.5	57.0
Percentage of possible sunshine	46	54	59	59	55	63	75	73	61	58	48	43	58
Number of clear days	7	7	8	7	7	9	15	16	12	10	8	7	113
Hourly wind velocity, miles	6.5	6.7	7.6	8.1	8.0	7.7	7.3	6.9	7.1	7.0	6.6	6.4	7.2
<b>NEBRASKA, OMAHA</b>													
Temperature													
Monthly mean	21.9	25.5	37.0	51.2	62.4	71.6	76.7	74.4	66.8	54.3	38.5	26.4	50.6
Daily mean maximum	30.4	34.5	46.5	61.1	72.0	81.1	86.3	83.8	76.7	64.2	46.7	34.0	59.8
Daily mean minimum	13.3	16.5	27.6	41.2	52.8	62.2	67.1	64.9	56.8	44.4	30.3	18.8	41.3
Highest on record	67	78	91	94	99	105	107	110	102	92	80	71	110
Lowest on record	-32	-26	-8	6	25	42	50	44	30	8	-14	-20	-32
Precipitation													
Total, inches	0.70	0.89	1.37	2.51	3.77	4.56	3.54	3.05	3.21	2.17	1.07	0.63	27.77
Days with 0.01 inch or more	6	7	7	10	12	11	9	9	8	7	5	7	98
Total snowfall, inches	6.3	5.2	0.7	( <sup>1</sup> )	0	0	0	0	0	0.4	2.0	5.3	19.9
Percentage of possible sunshine	55	57	57	56	62	68	75	69	65	63	55	52	61
Number of clear days	11	9	9	9	8	10	13	13	14	14	11	10	131
Hourly wind velocity, miles	9.1	9.6	10.0	10.3	9.1	7.5	6.4	6.7	7.5	8.4	10.8	8.7	8.7
<b>NEVADA, RENO</b>													
Temperature													
Monthly mean	32.5	35.6	41.0	47.3	53.6	61.0	67.5	67.0	59.7	49.7	41.0	33.7	49.1
Daily mean maximum	42.0	47.0	52.9	61.2	66.6	76.9	86.5	85.9	76.6	65.6	54.8	43.7	63.3
Daily mean minimum	21.0	23.8	28.5	33.2	39.5	46.2	52.0	51.1	43.8	35.4	28.0	22.5	36.4
Highest on record	67	76	79	88	98	100	102	102	95	87	76	69	102
Lowest on record	-19	-12	-3	14	16	28	35	35	24	16	5	-7	-19
Precipitation													
Total, inches	1.54	1.18	0.81	0.47	0.63	0.29	0.25	0.22	0.26	0.36	0.64	0.98	7.63
Days with 0.01 inch or more	7	6	6	3	5	2	2	2	3	3	4	7	50
Total snowfall, inches	10.6	7.1	6.3	0.9	0.8	0	0	0	( <sup>1</sup> )	0.3	1.3	5.8	33.1
Percentage of possible sunshine	56	62	70	76	77	84	90	90	85	78	67	56	74
Number of clear days	12	11	12	15	15	21	24	24	21	20	14	11	200
Hourly wind velocity, miles	5.4	6.1	7.1	8.1	7.8	7.4	6.8	6.3	6.0	5.3	5.3	4.9	6.4
<b>NEW HAMPSHIRE, CONCORD<sup>2</sup></b>													
Temperature													
Monthly mean	21.6	22.8	30.8	43.4	54.3	62.9	68.5	66.8	59.3	49.7	37.7	26.8	45.4
Daily mean maximum	30.7	32.1	40.1	54.1	66.2	74.7	79.9	78.0	70.4	60.0	46.1	34.8	55.6
Daily mean minimum	12.4	13.6	21.5	32.6	42.5	51.2	57.0	55.6	48.2	39.3	29.3	18.9	35.2
Highest on record	72	68	82	92	98	100	102	99	96	92	80	65	102
Lowest on record	-35	-34	-16	7	22	32	38	35	25	17	-17	-24	-35
Precipitation													
Total, inches	3.00	2.89	3.03	2.78	3.01	3.19	3.56	3.54	3.45	2.85	3.08	3.13	37.51
Days with 0.01 inch or more	11	9	10	11	11	10	10	11	9	10	10	9	121
Total snowfall, inches	13.5	17.0	8.2	4.7	0.2	0	0	0	( <sup>1</sup> )	0.1	5.5	11.6	60.8
Number of clear days	11	12	14	11	13	13	11	13	13	12	10	11	144
Hourly wind velocity, miles	5.6	6.2	6.3	6.4	5.7	4.9	4.5	4.2	4.2	5.0	5.6	5.5	5.3
<b>NEW JERSEY, ATLANTIC CITY</b>													
Temperature													
Monthly mean	32.5	33.6	38.6	47.8	58.1	66.6	72.1	72.5	66.8	56.9	45.6	36.4	52.3
Daily mean maximum	39.4	40.6	45.2	54.4	64.8	72.7	78.0	78.4	72.9	63.7	52.7	43.1	58.8
Daily mean minimum	25.7	26.5	32.0	41.3	51.5	60.4	66.3	66.6	60.7	50.2	38.5	29.6	45.7
Highest on record	68	71	79	85	95	97	100	104	94	90	77	68	104
Lowest on record	-4	-7	8	19	33	45	52	48	37	29	10	-7	-7
Precipitation													
Total, inches	3.49	3.36	3.60	2.99	3.05	3.04	3.93	4.49	2.65	3.20	2.82	3.94	40.56
Days with 0.01 inch or more	12	11	13	11	11	10	10	10	8	9	9	10	124
Total snowfall, inches	4.8	5.2	2.9	0.3	0	0	0	0	0	0	0	0	16.9
Percentage of possible sunshine	50	58	58	58	62	64	67	67	63	64	59	52	61
Number of clear days	9	9	9	9	10	10	10	11	12	13	11	10	123
Hourly wind velocity, miles	10.6	11.1	11.1	10.7	9.6	8.8	8.3	8.3	8.9	9.9	10.2	9.8	

<sup>1</sup> Trace.<sup>2</sup> Data for percentage of possible sunshine not available.

## No. 155.—CLIMATIC CONDITIONS, ETC.—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
<b>NEW MEXICO, SANTA FE</b>													
Temperature													
Monthly mean	28.8	33.1	39.7	46.7	55.7	64.8	69.0	67.4	60.9	50.4	38.9	30.7	48.8
Daily mean maximum	38.9	43.5	51.1	58.8	68.2	77.5	80.9	78.7	72.7	62.2	49.8	41.0	60.3
Daily mean minimum	18.7	22.6	28.3	34.6	43.2	52.2	57.2	56.0	49.1	38.7	28.1	20.5	37.4
Highest on record	76	75	82	84	89	92	96	97	90	85	77	65	97
Lowest on record	-13	-11	-2	11	20	33	43	40	21	13	-11	-13	-13
Precipitation													
Total, inches	0.67	0.75	0.80	1.00	1.26	1.08	2.38	2.28	1.45	1.18	0.68	0.74	14.27
Days with 0.01 inch or more	6	7	6	6	7	6	14	13	8	5	5	6	88
Total snowfall, inches	5.4	6.6	4.6	3.3	0.3	1	0	0	( <sup>1</sup> )	0.8	3.4	6.0	30.4
Percentage of possible sunshine	72	72	72	74	75	79	87	70	77	79	77	74	74
Number of clear days	18	13	14	14	14	16	9	10	16	20	19	18	181
Hourly wind velocity, miles	7.4	7.5	8.4	8.7	8.5	7.4	6.6	6.1	6.3	6.7	6.9	7.0	7.3
<b>NEW YORK, BUFFALO</b>													
Temperature													
Monthly mean	24.6	24.3	31.1	42.8	54.6	64.4	69.8	68.6	62.4	51.9	39.4	29.8	47.0
Daily mean maximum	31.0	31.2	38.1	50.4	62.2	71.4	76.5	75.7	69.7	58.7	45.2	35.5	53.8
Daily mean minimum	18.1	17.4	24.0	35.2	46.9	57.4	63.1	61.6	55.1	45.1	33.4	24.1	40.1
Highest on record	70	67	79	84	94	94	96	95	95	92	71	66	95
Lowest on record	-14	-13	-4	5	25	39	46	44	35	24	2	-9	-14
Precipitation													
Total, inches	3.30	2.95	2.57	2.56	3.10	2.82	3.03	3.08	2.92	3.29	3.02	3.36	36.00
Days with 0.01 inch or more	19	17	17	13	14	11	11	10	11	13	15	16	167
Total snowfall, inches	20.1	17.8	10.0	3.5	0.2	0	0	0	0	0.4	5.8	16.6	74.4
Percentage of possible sunshine	28	40	49	52	57	64	66	63	60	47	30	23	48
Number of clear days	2	3	5	7	8	8	9	9	9	6	3	1	70
Hourly wind velocity, miles	16.1	15.5	14.4	12.6	11.1	10.5	10.3	9.9	11.1	12.9	15.6	16.5	13.0
<b>NEW YORK, NEW YORK</b>													
Temperature													
Monthly mean	30.9	31.3	37.7	49.4	60.6	68.8	73.8	73.1	66.8	56.3	44.2	35.0	52.3
Daily mean maximum	37.4	38.4	45.4	57.2	68.5	77.0	81.7	80.1	73.7	63.7	51.0	41.2	69.6
Daily mean minimum	24.5	24.2	30.2	41.6	52.6	60.5	65.9	66.2	59.8	49.0	37.3	28.8	45.0
Highest on record	67	69	80	91	95	97	99	102	100	88	74	68	102
Lowest on record	-6	-7	3	12	34	45	50	51	39	29	7	-13	-13
Precipitation													
Total, inches	3.66	3.82	3.64	3.23	3.24	3.33	4.24	4.33	3.39	3.53	2.96	3.62	43.99
Days with 0.01 inch or more	12	10	12	11	11	10	12	10	9	9	9	10	125
Total snowfall, inches	8.1	10.1	7.7	1.3	( <sup>1</sup> )	0	0	0	0	( <sup>1</sup> )	1	6	74.9
Percentage of possible sunshine	50	60	58	59	60	63	63	62	63	60	55	51	59
Number of clear days	8	8	9	9	9	8	8	9	11	11	9	8	107
Hourly wind velocity, miles	20.0	20.0	21.0	18.0	16.0	14.0	14.0	13.0	14.0	16.0	19.0	19.0	17.0
<b>NORTH CAROLINA, ASHEVILLE</b>													
Temperature													
Monthly mean	35.4	38.5	44.9	53.9	62.6	68.7	71.7	70.5	65.0	55.3	45.1	37.8	54.1
Daily mean maximum	47.8	48.1	57.8	65.0	73.2	79.5	81.7	80.8	76.7	67.3	56.7	48.0	65.2
Daily mean minimum	29.1	28.9	37.3	43.4	51.8	59.0	62.3	61.8	56.1	44.6	35.4	29.9	45.0
Highest on record	76	77	86	89	91	92	96	96	95	85	76	78	96
Lowest on record	-5	-6	8	20	31	40	48	47	35	20	9	-4	-6
Precipitation													
Total, inches	3.10	3.15	3.97	3.02	3.43	3.93	4.30	4.16	-----	2.75	2.23	3.20	40.28
Days with 0.01 inch or more	10	10	12	11	12	14	15	15	9	7	7	10	132
Total snowfall, inches	4.0	2.9	1.3	0.2	0	0	0	0	0	0.1	0.6	1.9	11.0
Percentage of possible sunshine	49	52	55	60	62	59	58	56	62	64	64	48	57
Number of clear days	10	10	11	11	10	7	7	7	10	15	15	11	124
Hourly wind velocity, miles	9.6	10.2	10.1	9.6	7.3	5.8	5.3	5.3	5.8	7.0	8.4	9.2	7.8
<b>NORTH DAKOTA, BISMARCK</b>													
Temperature													
Monthly mean	7.8	10.3	24.2	42.1	54.5	63.7	69.8	67.3	58.1	44.9	28.5	14.7	40.5
Daily mean maximum	18.1	20.7	34.6	53.7	68.2	75.2	82.1	80.3	71.1	57.1	39.1	24.5	53.9
Daily mean minimum	-2.6	0.0	13.7	30.6	42.7	52.2	57.5	54.3	45.2	32.7	17.9	4.8	29.1
Highest on record	60	64	81	90	97	107	108	105	102	91	73	64	108
Lowest on record	-45	-43	-36	-3	13	31	32	32	10	-10	-28	-42	-45
Precipitation													
Total, inches	0.45	0.44	0.89	1.52	2.32	3.35	2.24	1.82	1.23	0.94	0.57	0.57	16.34
Days with 0.01 inch or more	7	7	8	8	11	12	10	8	6	6	6	7	96
Total snowfall, inches	5.8	5.1	8.3	2.6	0.8	0	0	0	0.1	1.0	5.2	6.3	35.2
Percentage of possible sunshine	53	58	56	58	58	62	71	69	62	60	52	49	59
Number of clear days	12	11	12	12	12	12	17	18	15	14	11	11	187
Hourly wind velocity, miles	8.9	9.3	10.4	11.8	11.1	10.2	8.9	8.8	9.6	9.8	9.3	8.6	9.7

<sup>1</sup> Trace.

## No. 155.—CLIMATIC CONDITIONS, ETC.—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
OHIO, COLUMBUS													
Temperature:													
Monthly mean	28.6	30.7	39.1	51.2	62.3	70.9	74.9	73.0	66.5	55.2	41.9	32.4	52.2
Daily mean maximum	35.9	38.4	47.6	60.7	72.2	80.9	84.9	83.0	76.7	64.8	49.7	39.2	61.2
Daily mean minimum	21.4	23.0	30.7	41.6	52.3	60.9	64.9	63.0	56.3	45.6	34.2	25.7	43.3
Highest on record	72	72	84	90	96	99	104	103	98	90	77	67	104
Lowest on record	-20	-20	0	15	31	39	50	42	32	20	-5	-12	-20
Precipitation													
Total, inches	3.06	2.67	3.50	2.87	3.59	3.31	3.55	3.26	2.57	2.46	2.77	2.73	36.34
Days with 0.01 inch or more	14	12	14	13	12	12	11	10	9	9	11	14	141
Total snowfall, inches	8.4	6.0	3.6	1.3	( <sup>1</sup> )	0	0	0	0	( <sup>1</sup> )	1.6	4.5	25.4
Percentage of possible sunshine	39	44	48	57	62	67	70	68	65	59	45	34	55
Number of clear days	6	6	7	9	10	10	12	12	13	12	8	5	110
Hourly wind velocity, miles	12.7	13.2	13.1	12.7	10.8	9.6	8.8	8.6	9.1	10.5	11.9	12.4	11.1
OKLAHOMA, OKLAHOMA CITY													
Temperature:													
Monthly mean	36.4	39.6	50.0	59.8	67.7	76.0	80.6	79.7	72.8	61.5	48.8	39.3	59.4
Daily mean maximum	46.4	50.5	61.5	70.8	77.6	85.9	90.9	90.4	83.8	72.6	59.4	48.9	68.9
Daily mean minimum	26.4	28.8	38.4	48.9	57.7	66.1	70.3	69.0	61.8	50.4	38.1	29.6	48.8
Highest on record	83	90	97	96	98	106	106	108	102	97	86	79	108
Lowest on record	-11	-17	4	22	33	46	55	49	35	16	9	-2	-17
Precipitation													
Total, inches	1.19	1.11	1.98	3.29	4.88	3.67	2.86	2.89	3.05	2.86	1.87	1.50	31.15
Days with 0.01 inch or more	6	5	7	8	11	8	7	7	6	6	5	6	82
Total snowfall, inches	2.8	2.2	0.8	( <sup>1</sup> )	0	0	0	0	0	( <sup>1</sup> )	0.3	2.0	8.1
Percentage of possible sunshine	55	60	60	62	63	71	76	77	73	67	64	59	66
Number of clear days	13	12	13	12	11	14	16	17	17	18	16	14	173
Hourly wind velocity, miles	12.6	13.6	14.9	14.8	13.1	11.5	10.2	9.7	10.9	11.6	12.3	12.3	12.3
OREGON, PORTLAND													
Temperature:													
Monthly mean	39.4	42.1	46.9	51.8	56.9	62.4	66.7	66.7	61.7	54.2	46.8	41.2	53.1
Daily mean maximum	44.5	48.1	54.3	60.7	66.3	72.2	77.4	77.6	71.4	62.0	52.7	46.0	61.1
Daily mean minimum	34.3	36.1	39.5	43.0	47.4	52.6	55.9	55.8	52.0	46.4	41.0	36.4	45.0
Highest on record	62	68	82	90	99	101	104	98	95	86	73	65	102
Lowest on record	-2	7	20	28	32	39	43	43	35	30	11	3	-2
Precipitation													
Total, inches	6.60	5.36	3.91	2.87	2.19	1.52	0.61	0.64	1.98	3.12	6.10	6.72	41.62
Days with 0.01 inch or more	20	17	17	15	13	10	4	4	8	12	17	19	156
Total snowfall, inches	5.8	3.9	0.8	( <sup>1</sup> )	0	0	0	0	0	0	0.6	4.1	15.2
Percentage of possible sunshine	25	32	39	47	50	56	70	66	52	43	26	23	44
Number of clear days	4	4	6	6	8	9	16	16	11	8	4	3	95
Hourly wind velocity, miles	6.5	6.7	6.5	6.2	6.1	5.9	5.9	5.5	5.4	5.2	6.2	6.5	6.0
PENNSYLVANIA, PITTSBURGH													
Temperature:													
Monthly mean	30.7	32.3	39.6	51.2	62.4	70.7	74.6	72.9	66.4	55.7	43.2	34.2	52.8
Daily mean maximum	38.3	40.4	48.3	60.9	72.4	80.5	84.2	82.6	76.2	64.9	50.7	41.0	61.7
Daily mean minimum	23.0	24.2	31.1	41.6	52.2	61.0	65.0	63.2	56.5	46.4	35.7	27.3	43.9
Highest on record	64	77	83	90	95	98	103	103	102	91	79	73	103
Lowest on record	-12	-20	1	11	27	39	49	45	35	20	4	-9	-20
Precipitation													
Total, inches	3.05	2.62	3.03	2.92	3.21	3.81	4.05	3.23	2.58	2.52	2.29	2.86	36.17
Days with 0.01 inch or more	16	14	15	13	13	12	12	10	9	10	12	15	151
Total snowfall, inches	9.2	7.3	5.8	2.2	( <sup>1</sup> )	0	0	0	( <sup>1</sup> )	0.1	2.0	7.1	33.7
Percentage of possible sunshine	31	36	45	47	56	61	63	61	63	56	40	29	49
Number of clear days	4	5	6	8	9	8	9	10	11	10	6	4	90
Hourly wind velocity, miles	12.2	12.6	12.7	12.0	10.2	9.4	8.7	8.5	8.7	9.9	11.9	12.0	10.7
RHODE ISLAND, PROVIDENCE													
Temperature:													
Monthly mean	27.2	29.0	35.7	46.6	58.5	68.3	73.4	71.0	63.2	52.2	40.4	31.6	49.8
Daily mean maximum	36.9	35.1	44.6	55.2	66.2	75.0	80.9	78.4	71.8	62.6	49.6	39.1	58.0
Daily mean minimum	21.2	18.6	28.0	37.5	47.6	55.9	63.0	60.9	53.9	44.9	34.3	24.8	40.9
Highest on record	64	62	84	88	92	96	100	97	92	87	75	68	100
Lowest on record	-9	-10	4	11	32	42	50	46	33	27	12	-12	-12
Precipitation													
Total, inches	3.70	3.64	3.49	3.21	2.96	2.68	3.27	3.50	3.18	3.12	3.06	3.38	39.19
Days with 0.01 inch or more	13	11	12	12	12	10	10	9	9	9	10	10	127
Total snowfall, inches	8.3	10.3	6.0	2.0	( <sup>1</sup> )	0	0	0	0	0	0.7	5.6	32.9
Percentage of possible sunshine	47	56	59	56	59	62	62	61	60	59	52	49	57
Number of clear days	10	10	12	9	10	9	10	10	12	13	10	10	125
Hourly wind velocity, miles	14.2	15.0	15.3	13.7	12.6	11.2	10.1	9.9	10.6	11.6	13.3	13.9	12.6

<sup>1</sup> Trace.

## No. 155.—CLIMATIC CONDITIONS, ETC.—Continued

Station	Jan	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec	Annual
<b>SOUTH CAROLINA, CHARLESTON</b>													
Temperature:													
Monthly mean.....	49.9	52.4	57.4	64.5	72.7	78.9	81.4	81.0	76.6	67.8	58.1	51.7	66.0
Daily mean maximum.....	57.3	59.9	65.2	71.9	79.6	85.5	87.8	87.1	82.9	74.7	65.7	59.3	73.1
Daily mean minimum.....	42.6	44.8	49.6	57.2	65.9	72.2	75.0	74.9	70.4	61.0	50.6	44.0	59.0
Highest on record.....	80	82	94	93	98	101	104	102	100	95	83	79	104
Lowest on record.....	10	7	24	32	45	49	64	62	49	37	23	12	7
Precipitation:													
Total, inches.....	3.02	2.98	3.02	2.53	3.00	4.59	6.89	6.53	4.53	3.27	2.14	2.72	45.22
Days with 0.01 inch or more.....	10	10	9	8	9	11	13	13	10	7	7	9	116
Total snowfall, inches.....	0.1	0.3	0	0	0	0	0	0	0	0	0	0.1	0.5
Percentage of possible sunshine.....	58	58	65	71	71	69	63	63	68	66	69	55	65
Number of clear days.....	10	10	12	13	12	8	8	8	11	14	13	12	131
Hourly wind velocity, miles.....	10.7	11.4	10.9	11.6	10.9	10.4	9.9	11.2	10.6	11.1	10.0	10.3	10.7
<b>SOUTH DAKOTA, HURON</b>													
Temperature:													
Monthly mean.....	11.3	14.3	28.9	45.1	56.4	66.2	71.8	69.4	61.3	47.7	31.5	18.7	43.6
Daily mean maximum.....	22.2	24.9	39.6	57.0	68.5	78.0	84.1	82.3	74.7	60.7	42.6	28.9	55.3
Daily mean minimum.....	0.5	3.7	18.1	33.2	44.2	54.3	59.5	56.6	47.9	34.7	20.4	8.4	31.8
Highest on record.....	64	68	85	94	97	103	108	108	106	94	77	65	108
Lowest on record.....	-43	-37	-25	5	20	31	41	33	18	-6	-28	-34	-43
Precipitation:													
Total, inches.....	0.56	0.54	0.91	2.24	2.98	3.79	3.16	2.46	1.57	1.28	0.59	0.57	20.65
Days with 0.01 inch or more.....	7	7	8	9	11	11	10	9	7	6	5	7	97
Total snowfall, inches.....	5.8	5.1	5.6	1.2	0.2	0	0	0	( <sup>1</sup> )	0	5.3	5.1	26.8
Percentage of possible sunshine.....	57	65	61	62	64	68	74	71	64	61	55	50	63
Number of clear days.....	11	10	9	10	10	11	14	14	13	13	11	11	137
Hourly wind velocity, miles.....	11.2	11.4	12.2	13.5	12.3	11.1	10.0	9.9	11.3	11.3	10.9	10.4	11.3
<b>TENNESSEE, NASHVILLE</b>													
Temperature:													
Monthly mean.....	38.6	41.6	49.2	59.0	68.2	75.6	79.1	77.8	71.8	61.0	49.0	41.0	59.3
Daily mean maximum.....	46.8	50.5	58.6	68.9	78.3	85.3	88.6	87.4	82.0	70.6	58.5	49.1	68.8
Daily mean minimum.....	30.4	32.6	39.9	49.0	58.1	66.0	69.7	68.2	61.7	51.4	39.5	33.0	49.9
Highest on record.....	78	79	89	90	96	100	102	104	104	92	81	75	104
Lowest on record.....	-10	-13	3	25	36	42	54	51	38	26	10	-2	-13
Precipitation:													
Total, inches.....	4.76	4.13	5.11	4.13	3.87	4.00	3.88	3.71	3.42	2.49	3.50	4.20	47.20
Days with 0.01 inch or more.....	12	11	12	11	10	11	11	9	8	7	9	11	122
Total snowfall, inches.....	2.9	2.9	1.5	0.1	( <sup>1</sup> )	0	0	0	0	( <sup>1</sup> )	0.2	1.4	9.0
Percentage of possible sunshine.....	43	47	53	61	67	69	70	69	70	65	57	42	59
Number of clear days.....	7	7	9	9	10	9	10	12	13	15	11	8	120
Hourly wind velocity, miles.....	10.0	11.0	12.0	11.0	9.0	8.0	7.0	7.0	7.0	8.0	9.0	10.0	9.0
<b>TEXAS, FORT WORTH</b>													
Temperature:													
Monthly mean.....	45.4	48.3	57.7	65.0	72.3	79.9	83.6	83.0	76.9	66.7	55.5	47.5	65.2
Daily mean maximum.....	55.5	59.2	68.6	75.3	82.1	90.0	93.8	93.0	81.1	77.4	65.6	57.3	75.4
Daily mean minimum.....	35.2	37.5	46.8	54.7	62.7	69.8	73.5	72.9	66.7	56.0	45.4	37.7	54.9
Highest on record.....	93	96	100	97	103	107	109	112	104	99	87	83	114
Lowest on record.....	1	-8	18	30	34	48	56	55	40	24	20	9	-13
Precipitation:													
Total, inches.....	2.05	1.76	2.32	4.02	4.65	3.35	2.61	2.62	2.49	2.81	2.58	1.87	33.13
Days with 0.01 inch or more.....	6	6	7	8	9	6	6	5	5	6	5	6	76
Total snowfall, inches.....	1.0	0.5	0.2	0	0	0	0	0	0	0	0.1	0.5	2.3
Percentage of possible sunshine.....	55	63	67	69	72	73	86	79	82	68	69	61	70
Number of clear days.....	11	11	15	11	11	13	14	15	16	16	14	14	161
Hourly wind velocity, miles.....	11.1	11.7	12.6	12.4	11.4	10.7	10.3	9.1	9.2	9.7	10.1	10.4	10.7
<b>TEXAS, GALVESTON</b>													
Temperature:													
Monthly mean.....	53.8	56.3	62.4	68.7	74.8	80.7	83.4	83.0	80.1	72.7	63.3	56.4	69.6
Daily mean maximum.....	59.2	61.6	67.4	73.3	79.2	85.2	88.0	87.7	84.8	77.7	68.6	61.8	74.5
Daily mean minimum.....	48.3	51.0	57.4	64.1	70.4	76.3	78.8	78.3	75.4	67.7	58.0	51.0	64.7
Highest on record.....	75	76	85	85	93	99	99	100	96	91	85	80	100
Lowest on record.....	11	8	30	41	52	57	66	67	54	41	26	18	8
Precipitation:													
Total, inches.....	3.41	2.83	2.68	3.06	3.42	4.37	3.71	4.28	5.57	4.36	3.33	3.75	44.77
Days with 0.01 inch or more.....	10	9	8	7	6	7	9	9	9	7	8	10	99
Total snowfall, inches.....	0.1	0.3	0	0	0	0	0	0	0	0	0	( <sup>1</sup> )	0.4
Percentage of possible sunshine.....	52	53	57	62	70	78	74	70	69	77	66	53	65
Number of clear days.....	10	9	10	10	12	15	14	15	15	18	13	10	151
Hourly wind velocity, miles.....	11.6	11.9	11.7	12.1	11.3	10.1	8.9	8.5	9.8	10.2	10.9	11.4	10.7

<sup>1</sup> Trace.

## No. 155.—CLIMATIC CONDITIONS, ETC.—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	An- nual
TEXAS, SAN ANTONIO													
Temperature:													
Monthly mean	52.3	55.4	62.8	69.1	75.1	81.0	83.8	83.5	79.0	70.5	60.3	53.7	68.9
Daily mean maximum	62.5	66.0	73.7	79.6	85.1	91.3	94.3	94.1	89.3	81.4	70.4	63.5	79.3
Daily mean minimum	42.1	44.9	51.9	58.6	65.2	70.8	73.3	72.8	68.7	59.6	50.2	44.0	58.5
Highest on record	87	91	97	100	103	105	106	108	103	99	89	86	108
Lowest on record	6	4	21	35	44	48	60	57	40	32	22	15	4
Precipitation:													
Total, inches	1.46	1.65	1.84	3.19	3.20	2.46	2.17	2.42	3.05	2.23	1.90	1.61	27.8
Days with 0.01 inch or more	8	7	7	7	8	7	6	7	5	7	7	7	82
Total snowfall, inches	(1)	0.1	0.1	0	0	0	0	0	0	(1)	0	0	0.4
Percentage of possible sun- shine	51	53	57	62	71	73	75	71	67	52	52	62	62
Number of clear days	11	10	11	9	9	13	14	14	13	16	12	13	145
Hourly wind velocity, miles	7.8	8.4	9.0	8.8	8.2	7.6	7.2	6.3	6.7	6.2	7.3	7.3	7.6
UTAH, SALT LAKE CITY													
Temperature:													
Monthly mean	29.2	33.8	41.7	49.6	57.4	67.4	75.7	74.5	64.4	52.5	41.1	31.9	51.6
Daily mean maximum	36.4	41.5	50.5	59.5	68.2	79.2	88.0	86.5	76.0	62.9	49.6	34.1	61.4
Daily mean minimum	22.0	26.1	32.9	39.7	46.7	55.5	63.3	62.5	52.9	42.0	32.6	24.0	41.7
Highest on record	60	68	77	85	93	101	103	101	93	88	74	61	103
Lowest on record	-20	-13	0	18	25	32	43	44	29	22	-2	-10	-20
Precipitation:													
Total, inches	1.31	1.51	1.98	2.05	1.92	0.80	0.51	0.85	0.98	1.44	1.35	1.43	16.13
Days with 0.01 inch or more	10	10	10	9	8	5	4	5	5	7	7	10	90
Total snowfall, inches	11.2	10.7	10.0	3.3	0.4	0.1	0	0	(1)	1.1	5.6	10.7	53.1
Percentage of possible sun- shine	45	48	54	62	66	77	78	76	76	68	58	44	63
Number of clear days	8	7	10	10	12	17	18	17	18	16	12	8	153
Hourly wind velocity, miles	6.5	6.6	7.7	8.3	8.5	8.3	7.6	7.3	7.6	6.8	6.0	5.7	7.2
VERMONT, NORTHEFIELD													
Temperature:													
Monthly mean	15.2	16.4	26.4	40.3	52.8	61.3	65.9	63.4	56.1	45.5	32.8	20.4	41.4
Daily mean maximum	26.0	27.2	36.3	50.7	64.5	73.1	77.6	75.0	67.7	55.9	41.2	29.6	52.1
Daily mean minimum	4.4	5.5	16.5	30.0	41.1	49.4	54.2	51.7	44.5	35.0	24.5	11.2	30.7
Highest on record	61	59	75	85	93	96	98	95	92	85	72	65	98
Lowest on record	-33	-35	-22	-1	18	28	34	31	20	9	-14	-41	-41
Precipitation:													
Total, inches	2.35	2.25	2.56	2.28	2.75	3.19	3.58	3.53	3.07	2.86	2.93	2.49	33.84
Days with 0.01 inch or more	14	11	13	12	13	13	14	13	12	19	13	13	154
Total snowfall, inches	18.8	20.1	16.6	6.3	(1)	0	0	0	(1)	(1)	10.0	15.5	87.3
Percentage of possible sun- shine	35	48	51	49	51	55	57	55	51	41	30	32	46
Number of clear days	5	6	7	7	7	6	5	7	8	6	4	4	72
Hourly wind velocity, miles	8.7	9.0	9.5	9.2	8.6	7.4	6.8	6.5	7.1	7.9	8.4	7.9	8.1
VIRGINIA, LYNCHBURG													
Temperature:													
Monthly mean	37.5	40.3	47.3	57.3	67.3	74.6	77.5	75.6	69.0	58.5	47.2	39.5	57.6
Daily mean maximum	46.4	49.6	57.3	68.5	78.4	84.9	87.4	85.1	79.0	69.4	57.2	48.3	67.6
Daily mean minimum	28.6	31.1	37.2	46.1	56.2	64.3	67.6	66.1	58.9	47.6	37.2	30.7	47.6
Highest on record	77	80	92	95	97	101	103	105	99	94	81	73	105
Lowest on record	-7	-3	11	20	34	43	50	47	35	27	13	-5	-7
Precipitation:													
Total, inches	3.43	3.15	3.54	2.95	3.63	3.79	4.21	3.78	3.31	3.15	2.33	3.26	40.53
Days with 0.01 inch or more	11	10	11	11	11	12	11	11	8	7	7	9	118
Total snowfall, inches	5.4	4.2	2.9	(1)	0	0	0	0	0	(1)	(1)	3.0	15.5
Percentage of possible sun- shine	45	53	59	62	67	65	70	66	66	64	57	45	60
Number of clear days	10	10	11	11	11	9	10	10	13	16	13	11	135
Hourly wind velocity, miles	5.4	5.9	6.3	6.0	4.8	4.1	3.9	3.6	3.7	4.3	4.9	4.9	4.8
WASHINGTON, SEATTLE													
Temperature:													
Monthly mean	39.5	41.1	44.9	49.4	54.5	59.0	63.1	63.1	58.1	51.4	45.6	41.7	51.0
Daily mean maximum	43.9	46.3	51.3	57.0	62.2	67.0	72.2	72.0	65.4	57.2	50.3	45.9	57.6
Daily mean minimum	35.2	35.9	38.6	41.9	46.7	51.0	54.1	54.3	50.7	45.6	40.9	37.6	44.4
Highest on record	63	67	81	85	92	98	95	92	87	81	68	62	98
Lowest on record	3	4	20	30	36	40	46	46	36	29	15	12	5
Precipitation:													
Total, inches	4.94	3.89	3.05	2.38	1.87	1.33	0.63	0.70	1.77	2.84	5.03	5.60	34.03
Days with 0.01 inch or more	19	16	16	14	13	10	5	4	9	12	18	19	155
Total snowfall, inches	5.9	4.7	1.3	0.2	0	0	0	0	0	(1)	1.2	1.9	15.2
Percentage of possible sun- shine	25	35	44	51	51	54	63	59	48	33	21	21	42
Number of clear days	3	4	5	6	6	8	13	13	8	5	2	3	76
Hourly wind velocity, miles	8.6	7.9	8.6	7.8	7.5	7.1	6.3	5.7	6.6	6.7	8.1	8.4	7.4

1 Trace.

## No. 155.—CLIMATIC CONDITIONS, ETC.—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
<b>WEST VIRGINIA, PARKERSBURG</b>													
Temperature													
Monthly mean	32.5	34.2	42.8	53.4	63.8	71.4	75.4	73.9	67.3	56.1	43.8	35.2	54.2
Daily mean maximum	40.3	42.7	52.1	63.7	74.3	81.7	85.5	84.0	77.8	66.7	52.4	42.8	63.7
Daily mean minimum	24.8	25.8	33.5	43.1	53.2	61.2	65.2	63.7	56.8	45.5	35.2	27.7	44.6
Highest on record	74	76	86	93	96	99	102	106	99	91	81	72	106
Lowest on record	-12	-27	4	15	31	41	48	45	33	20	15	-10	-27
Precipitation													
Total, inches	3.58	3.13	3.49	3.19	3.38	4.00	4.29	3.51	2.76	2.48	2.57	3.03	39.41
Days with 0.01 inch or more	15	13	15	13	12	13	12	10	9	9	10	13	144
Total, snowfall, inches	7.4	7.2	4.6	1.1	(1)	0	0	0	0	(1)	1.3	4.6	26.2
Percentage of possible sunshine	30	37	42	48	55	58	62	57	59	52	37	27	47
Number of clear days	7	7	9	10	11	11	14	13	13	13	8	7	123
Hourly wind velocity, miles	6.6	7.3	7.2	6.7	5.2	4.5	4.4	4.2	4.2	4.9	5.9	6.1	5.6
<b>WISCONSIN, GREEN BAY</b>													
Temperature													
Monthly mean	15.7	17.4	28.6	43.2	54.9	64.9	70.0	67.7	60.4	48.5	34.0	22.3	44.0
Daily mean maximum	23.5	25.8	36.7	52.1	64.6	74.8	80.2	77.5	69.7	56.9	40.7	29.0	52.6
Daily mean minimum	7.8	9.1	20.4	34.3	45.3	55.1	59.7	57.9	51.0	40.1	27.2	15.5	35.3
Highest on record	51	59	82	85	91	100	101	98	95	84	71	52	101
Lowest on record	-36	-33	-23	11	22	34	43	38	25	8	-12	-21	-36
Precipitation													
Total, inches	1.54	1.56	2.04	2.65	3.52	3.70	3.46	3.18	3.52	2.54	2.16	1.71	31.58
Days with 0.01 inch or more	10	9	10	11	13	11	11	10	10	9	10	10	124
Total snowfall, inches	12.0	9.0	7.7	2.8	0.2	0	0	0	0	1.0	5.6	9.9	48.2
Percentage of possible sunshine	46	47	53	52	60	62	66	61	56	48	37	37	52
Number of clear days	7	7	7	7	7	6	8	8	8	7	5	6	83
Hourly wind velocity, miles	10.1	10.5	10.8	14.0	10.5	8.4	8.1	8.0	8.9	9.7	10.5	10.2	10.0
<b>WYOMING, LANDER</b>													
Temperature													
Monthly mean	18.3	22.5	32.4	42.4	51.2	60.5	67.4	65.5	55.7	43.5	30.3	20.4	42.5
Daily mean maximum	31.8	36.3	45.7	55.6	64.9	76.1	84.1	82.5	72.1	58.6	44.2	33.9	57.2
Daily mean minimum	4.7	8.7	19.2	29.3	37.6	44.8	50.8	48.4	39.3	28.5	16.5	7.0	27.9
Highest on record	64	64	71	82	88	96	100	96	90	83	72	62	100
Lowest on record	-36	-35	-24	-3	13	26	32	23	7	-14	-31	-40	-40
Precipitation													
Total, inches	0.56	0.63	1.19	2.06	2.26	1.15	0.69	0.53	0.92	1.36	0.60	0.68	12.63
Days with 0.01 inch or more	4	5	7	8	9	6	6	5	5	5	4	4	68
Total snowfall, inches	5.2	8.9	12.5	13.2	5.1	0.5	0	0	2.1	8.8	6.7	8.4	71.4
Percentage of possible sunshine	67	73	74	67	66	75	77	78	73	68	58	61	70
Number of clear days	12	10	9	9	8	12	13	13	15	14	11	12	138
Hourly wind velocity, miles	3.9	3.7	5.0	5.3	5.4	5.0	4.5	4.3	4.5	3.9	3.8	3.4	4.4

<sup>1</sup> Trace.

Source: The Weather Bureau, Department of Agriculture.

## 8. ARMY, NAVY, CIVIL SERVICE, PENSIONS, VETERANS' BUREAU ACTIVITIES, ELECTIONS, ETC.

### No. 156.—ARMY OF THE UNITED STATES: STRENGTH OF COMPONENT PARTS

NOTE.—Prior to 1914, table covers quinquennial years and years in which considerable changes occurred in the number of Regular Army. Figures for Officers' Reserve Corps include Regular Army enlisted men and also, prior to 1924, National Guard officers, holding commissions in the reserve. There is, therefore, some duplication in the grand totals, but the number of this personnel is not so great as to make a material difference in the figures.

June 30—	Grand total	Regular Army <sup>1</sup>			National Guard <sup>2</sup>			Reserve forces <sup>3</sup>		
		Total	Officers	Enlisted men	Total	Officers	Enlisted men	Total	Officers	Enlisted men
1890-----	136,624	27,089	2,168	24,921	109,535	8,555	100,980			
1895-----	140,061	27,172	2,154	25,018	112,879	9,227	103,652			
1900-----	223,366	68,155	2,486	65,669	122,213	8,246	113,967	<sup>4</sup> 32,998	<sup>4</sup> 1,531	<sup>4</sup> 31,467
1901-----	200,696	81,586	2,940	78,646	115,749	8,751	106,998	<sup>4</sup> 3,361	<sup>4</sup> 350	<sup>4</sup> 3,011
1902-----	185,805	75,584	3,731	71,853	110,221	( <sup>5</sup> )	( <sup>5</sup> )			
1905-----	178,269	66,956	3,934	63,022	111,313	8,680	102,633			
1907-----	168,837	63,624	3,797	59,827	105,213	8,567	96,646			
1908-----	187,369	76,423	3,968	72,462	110,941	8,583	102,358			
1909-----	203,385	84,459	4,208	80,251	118,926	8,976	109,951			
1910-----	200,378	80,718	4,439	76,279	119,660	9,155	110,505			
1912-----	213,313	91,461	4,650	86,811	121,852	9,142	112,710			
1914-----	225,819	97,760	4,883	92,877	128,043	8,792	119,251	<sup>6</sup> 16		<sup>6</sup> 16
1915-----	235,410	105,093	4,798	101,195	129,398	8,705	120,693	<sup>6</sup> 19		<sup>6</sup> 19
1916-----	244,483	107,641	5,025	102,616	132,194	8,589	123,605	<sup>6</sup> 4,648		<sup>6</sup> 4,648
1917-----	629,863	250,357	6,332	244,025	314,581	<sup>8</sup> 11,000	303,581	<sup>6</sup> 4,925	<sup>6</sup> 21,543	<sup>10</sup> 43,382
1918-----	2,246,103	<sup>11</sup> 741,084	<sup>11</sup> 10,518	<sup>11</sup> 730,566	<sup>7</sup> 445,678	<sup>8</sup> 12,000	<sup>8</sup> 433,678	<sup>11</sup> 1,059,341	<sup>11</sup> 135,380	<sup>11</sup> 923,961
1918-----										
(Nov 11) <sup>9</sup>	3,673,888	<sup>14</sup> 3,673,888	<sup>14</sup> 188,434	<sup>14</sup> 3,485,454						
1919-----	931,422	836,882	<sup>15</sup> 78,003	758,879	37,210	1,198	36,012	<sup>9</sup> 45,573		<sup>6</sup> 11,757
1920-----	363,540	200,367	<sup>15</sup> 15,519	184,848	56,090	2,073	54,017	107,083	<sup>9</sup> 68,232	<sup>6</sup> 38,851
1921-----	407,920	227,374	<sup>15</sup> 14,124	213,250	113,040	5,843	107,197	66,006	<sup>9</sup> 66,905	<sup>16</sup> 1
1922-----	373,597	146,069	<sup>15</sup> 14,075	131,994	159,658	8,744	150,914	67,870	<sup>9</sup> 67,390	<sup>16</sup> 480
1923-----	370,042	130,964	<sup>15</sup> 12,682	118,282	160,598	9,675	150,923	78,480	<sup>9</sup> 76,923	<sup>16</sup> 1,557
1924-----	397,794	140,644	<sup>15</sup> 12,501	128,143	177,428 <sup>17</sup>	10,996	166,432	79,722	<sup>9</sup> 76,322	<sup>16</sup> 3,400
1925-----	406,162	134,624	<sup>15</sup> 12,909	121,715	177,525 <sup>17</sup>	11,595	165,930	94,013	<sup>9</sup> 88,893	<sup>16</sup> 5,115
1926-----	410,902	133,033	<sup>15</sup> 13,105	119,928	174,909 <sup>17</sup>	11,435	163,534	102,900	<sup>9</sup> 97,125	<sup>16</sup> 5,775
1927-----	421,519	133,079	<sup>15</sup> 13,175	119,904	181,142 <sup>17</sup>	12,192	168,950	107,298	<sup>9</sup> 101,563	<sup>16</sup> 5,735
1928-----	426,075	134,331	<sup>15</sup> 13,174	121,157	181,221 <sup>17</sup>	12,428	168,793	110,523	<sup>9</sup> 105,059	<sup>16</sup> 5,464

<sup>1</sup> Includes Philippine Scouts beginning with 1902. Figures for 1919 to 1926, inclusive, include in most cases World War emergency personnel still in service. All emergency enlisted men still in service were discharged on July 2, 1921. On Nov. 11, 1926, the last emergency (World War nonregular) officer who for several years had been undergoing treatment for physical reconstruction, was discharged, thereby completing the demobilization of the World War Army. Retired personnel on active duty are not included.

<sup>2</sup> State militia prior to act of June 3, 1916.

<sup>3</sup> Figures for 1900 and 1901 are "U. S. Volunteers of the Philippine Insurrection period; for other years Regular Army Reserve, Officers' Reserve Corps, Enlisted Reserve Corps, and the "National Army" of the World War period, as noted.

<sup>4</sup> U. S. Volunteers.

<sup>5</sup> Figures on officers and enlisted men not available.

<sup>6</sup> Regular Army Reserve. The Regular Army Reserve was abolished by act of June 4, 1920.

<sup>7</sup> Includes National Guard personnel in Federal service.

<sup>8</sup> Estimate.

<sup>9</sup> Officers' Reserve Corps. Beginning with 1924, figures do not include individuals who hold commissions also in the National Guard.

<sup>10</sup> Includes Regular Army Reserve, 3,382, Enlisted Reserve Corps, 35,000 (estimate).

<sup>11</sup> Subject to revision.

<sup>12</sup> Includes Officers' Reserve Corps, 86,262; National Army, 49,118 (estimate).

<sup>13</sup> Estimated enlisted strength of the National Army. Practically all members of the Regular Army Reserve and the Enlisted Reserve Corps had, by this date, been assigned to duty with Regular Army, National Guard, and National Army organizations.

<sup>14</sup> Estimates only. Under orders of the Secretary of War all components had been merged into one army known as "The United States Army."

<sup>15</sup> Beginning with 1919, figures for commissioned officers include warrant officers in the following numbers: 1919, 87; 1920, 68; 1921, 1,159; 1922, 1,151; 1923, 1,085; 1924, 1,063; 1925, 1,028; 1926, 1,325; 1927, 1,262; 1928, 1,208.

<sup>16</sup> Enlisted Reserve Corps.

<sup>17</sup> Beginning with 1924, figures for commissioned officers include warrant officers in the following numbers: 1924, 87; 1925, 160; 1926, 162; 1927, 182; 1928, 184.

Source: Reports of the War Department.



No. 157.—NATIONAL GUARD:<sup>1</sup> ORGANIZED STRENGTH, JUNE 30

State or Territory	1922		1928		State or Territory	1922		1928	
	Officers	En-listed men	Officers <sup>1</sup>	En-listed men		Officers	En-listed men	Officers <sup>1</sup>	En-listed men
Total.....	8,744	150,914	12,428	168,793	Montana.....	20	419	74	1,029
Alabama.....	152	2,455	208	2,597	Nebraska.....	65	1,203	108	1,602
Arizona.....	30	526	55	823	Nevada.....	(?)	(?)	3	938
Arkansas.....	92	1,607	143	2,054	New Hampshire.....	63	1,082	69	4,508
California.....	104	3,349	376	5,109	New Jersey.....	213	4,009	332	4,508
Colorado.....	91	1,305	139	1,629	New Mexico.....	45	670	66	1,057
Connecticut.....	169	2,913	312	3,888	New York.....	1,142	20,474	1,388	19,459
Delaware.....	40	710	67	741	North Carolina.....	114	2,213	230	3,355
District of Columbia.....	34	456	64	930	North Dakota.....	46	1,102	72	1,199
Florida.....	94	1,654	154	2,287	Ohio.....	513	8,118	587	7,895
Georgia.....	129	2,391	223	3,360	Oklahoma.....	159	3,785	417	4,602
Hawaii.....	62	1,203	101	1,579	Oregon.....	118	2,239	187	2,777
Idaho.....	57	896	80	989	Pennsylvania.....	750	11,864	841	10,907
Illinois.....	355	6,606	606	8,617	Porto Rico.....	67	1,465	85	1,425
Indiana.....	290	4,632	348	4,457	Rhode Island.....	75	1,441	114	1,494
Iowa.....	195	3,411	241	3,439	South Carolina.....	95	1,781	122	2,154
Kansas.....	172	2,536	251	3,065	South Dakota.....	57	904	100	1,180
Kentucky.....	110	2,327	215	2,588	Tennessee.....	55	776	190	2,514
Louisiana.....	79	1,440	127	1,871	Texas.....	326	5,581	577	7,227
Maine.....	114	2,060	146	1,989	Utah.....	46	710	103	1,141
Maryland.....	163	2,415	226	3,038	Vermont.....	72	1,135	81	1,147
Massachusetts.....	453	7,850	623	8,971	Virginia.....	192	3,258	259	3,493
Michigan.....	227	3,735	309	4,133	Washington.....	148	2,364	206	2,455
Minnesota.....	278	4,769	343	4,600	West Virginia.....	44	1,019	103	1,655
Mississippi.....	63	1,352	128	1,617	Wisconsin.....	430	6,470	349	4,295
Missouri.....	227	3,794	298	4,183	Wyoming.....	29	440	47	751

<sup>1</sup> "National Guard" by act of June 3, 1916.<sup>2</sup> Did not accept allotment.<sup>3</sup> Includes 184 warrant officers

Source Reports of the War Department.

## No. 158.—NAVY, MARINE CORPS, AND THE NAVAL RESERVE: ORGANIZED STRENGTH, JUNE 30

Year	Navy		Naval Reserve <sup>1</sup>		Marine Corps		Marine Corps Reserve	
	Officers	Enlisted men	Officers	Enlisted men	Officers	Enlisted men	Officers	Enlisted men
1903.....	2,009	27,245	435	4,901	195	6,091	-----	-----
1905.....	2,252	30,804	465	4,475	273	6,932	-----	-----
1907.....	2,552	33,027	504	5,225	279	8,038	-----	-----
1909.....	2,823	44,129	525	5,639	334	9,348	-----	-----
1910.....	2,921	45,076	540	5,961	334	9,152	-----	-----
1911.....	3,099	46,759	602	6,592	330	9,454	-----	-----
1912.....	3,114	46,651	615	7,185	319	9,567	-----	-----
1913.....	3,505	48,068	615	7,446	330	9,757	-----	-----
1914.....	3,711	52,667	596	7,132	341	9,888	-----	-----
1915.....	3,780	52,561	606	7,706	344	9,968	-----	-----
1916.....	4,134	77,956	638	9,170	646	14,981	-----	-----
1917.....	4,253	141,543	<sup>2</sup> 4,166	<sup>3</sup> 57,801	500	24,772	373	4,073
1918.....	7,974	217,834	<sup>2</sup> 15,486	<sup>3</sup> 239,906	1,283	45,348	210	5,188
1919.....	10,488	145,018	<sup>2</sup> 32,137	<sup>3</sup> 35,805	1,997	43,921	725	6,145
1920.....	8,171	107,360	<sup>2</sup> 28,482	<sup>3</sup> 2,445	1,106	16,061	504	4,750
1921.....	8,625	105,571	<sup>2</sup> 19,734	( <sup>4</sup> )	1,087	21,908	545	4,180
1922.....	7,831	88,580	<sup>2</sup> 5,340	<sup>5</sup> 13,400	1,142	20,098	446	1,110
1923.....	7,873	82,355	4,222	17,511	1,140	18,533	136	401
1924.....	8,126	87,327	3,975	21,015	1,157	19,176	187	543
1925.....	8,389	84,289	3,818	24,349	1,168	18,310	150	483
1926.....	8,574	82,161	3,736	25,654	1,178	17,956	250	2,647
1927.....	8,904	83,566	3,771	26,293	1,200	18,000	378	5,685
1928.....	8,856	84,355	4,091	27,072	1,198	17,822	413	8,366

<sup>1</sup> Figures prior to 1917 relate to the Naval Militia.<sup>4</sup> No figures available.<sup>2</sup> Enrolled.<sup>5</sup> Approximate.<sup>3</sup> On active duty Aug. 1.

Source Reports of the Navy Department.

**No. 159.—ARMY OF THE UNITED STATES: ESTIMATED STRENGTH, BY MONTHS, APRIL 1, 1917, TO NOVEMBER 1, 1918**

Date	Aggregate			In the United States and foreign possessions			In the American Expeditionary Forces <sup>1</sup>		
	Total	Officers	Enlisted men	Total	Officers	Enlisted men	Total	Officers	Enlisted men
1917									
Apr. 1-----	199,705	9,159	190,546	199,705	9,159	190,546	-----	-----	-----
July 1-----	393,275	31,678	361,597	381,675	31,229	350,446	11,600	449	11,151
Oct. 1-----	1,011,963	58,400	953,563	954,249	54,103	900,146	57,714	4,297	53,417
1918									
Jan. 1-----	1,412,066	82,000	1,330,066	1,243,428	72,459	1,170,969	168,638	9,541	159,097
Apr. 1-----	1,672,975	96,000	1,576,975	1,364,893	77,469	1,287,424	308,082	18,531	289,551
July 1-----	2,379,579	115,179	2,264,400	1,514,378	75,117	1,439,261	865,201	40,062	825,139
Oct. 1-----	3,313,145	178,000	3,135,145	1,610,185	106,974	1,503,211	1,702,960	71,026	1,631,934
Nov. 1-----	3,545,330	185,000	3,360,330	1,681,311	108,369	1,572,942	1,864,019	76,631	1,787,388

<sup>1</sup> Exclusive of Navy and Marine Corps personnel serving with the Army.

Source. Reports of the War Department

**No. 160.—ARMY OF THE UNITED STATES: COMPARATIVE STRENGTH ON APRIL 1, 1917, AND NOVEMBER 11, 1918, BY BRANCHES OF SERVICE**

Branch	Apr. 1, 1917			Nov. 11, 1918		
	Total	Officers	Enlisted men	Total	Officers	Enlisted men
Total-----	199,705	9,159	190,546	3,873,888	188,434	3,485,454
Infantry <sup>1</sup> -----	107,002	4,674	102,328	1,046,306	39,445	1,006,861
Corps of Engineers-----	2,979	277	2,702	308,318	10,761	297,557
Field Artillery <sup>2</sup> -----	9,520	404	9,116	399,827	19,131	380,696
Medical Department-----	8,934	1,105	7,829	304,838	40,338	264,500
Quartermaster Corps-----	7,557	279	7,278	258,598	10,783	247,815
Coast Artillery Corps-----	21,347	786	20,561	152,913	5,388	147,525
Ordnance Department-----	837	96	741	60,767	5,158	61,609
Signal Corps-----	2,946	110	2,836	52,760	2,367	50,393
Cavalry-----	20,897	1,035	19,862	30,901	1,717	29,184
Air Service-----	-----	-----	-----	197,446	19,198	178,248
Motor Transport Corps-----	-----	-----	-----	62,608	2,993	59,615
Militia Bureau-----	-----	-----	-----	26,262	1,194	25,068
Military Police Corps-----	-----	-----	-----	17,547	492	17,055
Chemical Warfare Service-----	-----	-----	-----	19,465	1,902	17,563
Tank Corps-----	-----	-----	-----	15,960	1,090	14,870
Postal Express Service-----	-----	-----	-----	3,154	131	3,023
Philippine Scouts-----	5,523	169	5,354	8,498	243	8,255
In training-----	-----	-----	-----	444,780	12,766	432,014
All others-----	12,163	224	11,939	256,940	13,337	243,603

<sup>1</sup> Including machine gun units<sup>2</sup> Including ammunition trains.

Source. Reports of the War Department

**No. 161.—VESSELS OF THE U. S. NAVY FIT FOR SERVICE (INCLUDING THOSE UNDER REPAIR): NUMBER AND DISPLACEMENT, JUNE 30**

June 30—	Total		Fighting ships		Nonfighting ships	
	Number	Displacement	Number	Displacement	Number	Displacement
		Tons		Tons		Tons
1906-----	276	692,592	200	518,115	76	174,477
1910-----	308	1,075,407	220	828,695	88	246,712
1915-----	343	1,352,135	230	913,334	113	438,801
1920-----	795	2,111,457	618	1,369,880	177	741,577
1923-----	774	2,353,660	585	1,333,065	189	1,020,595
1924-----	753	2,258,843	565	1,253,132	188	1,005,661
1925-----	734	2,274,376	567	1,269,791	167	1,004,585
1926-----	734	2,247,956	557	1,273,550	177	974,405
1927-----	734	2,225,348	556	1,264,313	178	961,035
1928-----	735	2,310,481	561	1,331,043	174	979,438

Source. Navy Department.

No. 162.—VESSELS IN THE NAVY: NUMBER AND DISPLACEMENT, BY CLASSES,  
DECEMBER 31, 1928

Class and type	Total		Fit for service, including those under repair				Under construction		Authorized, but no funds appropriated	
			In commission		Out of commission					
	Number	Displacement	Number	Displacement	Number	Displacement	Number	Displacement	Number	Displacement
Grand total, all types	762	Tons 12, 408, 393	405	Tons 1, 527, 610	330	Tons 795, 263	10	Tons 85, 520	17	Tons ( <sup>2</sup> )
Battleships (first line).....	18	525, 850	18	525, 850						
Cruiser type, total.....	47	429, 221	21	207, 230	18	141, 991	8	80, 000		
Cruisers, second line.....	11	139, 450	3	36, 330	8	103, 120				
Light cruisers, first line.....	18	155, 000	10	75, 000			8	80, 000		
Light cruisers, second line.....	11	39, 975	3	9, 600	8	30, 375				
Aircraft carriers, first line.....	2	66, 000	2	66, 000						
Aircraft carriers, second line.....	1	12, 700	1	12, 700						
Mine layers, second line.....	4	16, 096	2	7, 600	2	8, 496				
Destroyer type, total.....	296	1 335, 089	112	135, 912	172	199, 177			12	( <sup>2</sup> )
Destroyers, first line.....	274	1 312, 479	106	128, 766	156	183, 713			12	( <sup>2</sup> )
Destroyers, second line.....	8	5, 936			8	5, 936				
Light mine layers.....	14	16, 674	6	7, 146	8	9, 528				
Submarines, total.....	128	1 92, 979	80	65, 945	42	21, 514	2	5, 520	4	( <sup>2</sup> )
Submarines, first line.....	51	1 43, 822	47	40, 843	3	2, 979			1	( <sup>2</sup> )
Submarines, second line.....	65	31, 282	29	16, 065	36	15, 217				
Fleet submarines, first line.....	9	19, 675	3	6, 357	3	3, 318			3	( <sup>2</sup> )
Fleet submarines (mine laying).....	1	2, 680	1	2, 680						
Fleet submarines (cruiser).....	2	5, 520					2	5, 520		
Patrol vessels, total.....	98	45, 816	57	26, 733	41	19, 083				
Eagles.....	53	26, 500	17	8, 500	36	18, 000				
Submarine chasers.....	27	2, 079	23	1, 771	4	308				
Gunboats.....	12	8, 817	12	8, 817						
Converted yachts.....	6	8, 420	5	7, 645	1	775				
Auxiliaries, total.....	146	1 870, 994	100	515, 521	45	355, 473			1	( <sup>2</sup> )
Destroyer tenders.....	8	95, 375	6	69, 700	2	25, 675				
Submarine tenders.....	8	64, 083	6	51, 875	2	12, 208				
Aircraft tenders.....	1	11, 500	1	11, 500						
Repair ships.....	3	26, 200	2	13, 100	1	8, 100				
Store ships.....	5	61, 500	2	21, 100	3	40, 400				
Colliers.....	5	96, 140	1	19, 250	4	76, 890				
Oilers.....	19	275, 336	11	150, 286	8	125, 050				
Ammunition ships.....	2	21, 200	1	10, 600	1	10, 600				
Cargo ships.....	6	59, 680	3	26, 230	3	33, 450				
Transports.....	3	123, 400	2	23, 400					1	( <sup>2</sup> )
Hospital ships.....	3	25, 817	2	19, 900	1	5, 917				
Ocean tugs.....	35	31, 348	24	22, 715	11	8, 633				
Mine sweepers.....	43	40, 850	34	32, 300	9	8, 550				
Miscellaneous.....	5	38, 565	5	38, 565						
Unclassified.....	29	108, 444	17	50, 419	12	58, 025				

<sup>1</sup> Displacement of the following not included in totals. 12 destroyers, 1 submarine, first line; 3 fleet submarines, first line; 1 transport.

<sup>2</sup> Displacement not given.

Source Navy Department.

**No. 163.—AMERICAN NATIONAL RED CROSS: EXPENDITURES OF THE  
NATIONAL ORGANIZATION, YEARS ENDED JUNE 30**

NOTE.—Data cover the expenditures and budget of the national organization only and do not include chapter budgets. The estimates for 1929 include amounts appropriated to February 28, 1929, for domestic and foreign disasters. The total expenditures for 1921 were \$24,492,741; 1922, \$12,475,848, 1923, \$9,738,448

Item	1924	1925	1926	1927	1928	Estimated 1929
<b>Total</b> .....	<b>\$16,497,255</b>	<b>\$5,836,680</b>	<b>\$7,381,869</b>	<b>\$11,360,349</b>	<b>\$19,866,291</b>	<b>\$10,866,191</b>
<b>Domestic operations.</b>						
Service to disabled veterans.....	1,735,825	1,677,916	1,641,178	1,161,224	862,337	867,135
Service to men of the Regular Army and Navy.....	308,286	310,376	309,452	307,832	307,458	308,039
Disaster relief.....	450,604	1,622,783	3,642,827	7,960,893	16,691,608	7,789,678
Enrolled Nurses' Reserve.....	43,508	45,633	47,353	45,249	46,364	44,249
Public health nursing.....	267,241	229,616	215,823	211,069	160,637	164,710
Home hygiene and care of the sick.....	68,533	52,760	51,466	48,380	85,989	90,740
Nutrition.....	65,604	74,135	64,108	54,371	64,020	66,339
First aid and life saving.....	216,235	233,423	251,385	238,780	297,201	302,480
Junior Red Cross.....	233,511	216,707	212,033	188,434	236,564	237,793
Other domestic operations.....	283,473	302,968	264,040	236,147	298,500	302,733
<b>Insular and foreign operations</b>						
Relief in foreign disasters.....	11,969,690	285,579	53,076	256,963	213,339	102,899
League of Red Cross Societies.....	165,000	177,450	180,000	192,500	210,500	210,000
Junior Red Cross foreign projects.....	99,580	84,284	74,065	69,360	31,389	25,170
Assistance to insular chapters.....	221,855	110,239	49,600	75,621	63,873	40,000
Other insular and foreign work.....		80,068	54,784	48,392	28,653	35,394
<b>Supervision of service activities and general management</b> .....	<b>368,310</b>	<b>332,733</b>	<b>270,629</b>	<b>265,132</b>	<b>267,859</b>	<b>298,832</b>

**No. 164.—AMERICAN NATIONAL RED CROSS: ANNUAL ROLL CALL, 1927-28**

NOTE.—Total continental United States membership (including Alaska) and per cent of total population in previous years: 1918-19, 19,696,773 (18.62 per cent); 1919-20, 9,171,513 (8.67 per cent); 1920-21, 5,836,353 (5.52 per cent); 1921-22, 3,763,111 (3.56 per cent); 1922-23, 3,330,089 (3.15 per cent); 1923-24, 3,048,586 (2.88 per cent); 1924-25, 3,033,093 (2.87 per cent); 1925-26, 2,915,308 (2.76 per cent); 1926-27, 2,995,846 (2.5 per cent)

State or Territory	Mem- bership	Population, July 1, 1927 (census estimates)	Per cent of membership to popu- lation	State or Territory	Mem- bership	Population, July 1, 1927 (census estimates)	Percent of mem- bership to popu- lation
<b>Grand total</b> .....	<b>4,058,949</b>			Montana.....	21,689	714,000	3.0
<b>Continental U. S. 1</b> .....	<b>3,975,155</b>	<b>118,682,681</b>	<b>3.4</b>	Nebraska.....	32,948	1,396,000	2.3
Alabama.....	21,694	2,549,000	0.8	Nevada.....	4,579	177,407	5.9
Alaska.....	3,339	255,036	6.1	New Hampshire.....	40,904	455,000	9.0
Arizona.....	12,606	459,000	2.7	New Jersey.....	189,737	3,749,000	5.1
Arkansas.....	55,091	1,923,000	2.9	New Mexico.....	7,463	392,000	1.9
California.....	267,598	4,433,000	6.0	New York.....	493,500	11,423,000	4.3
Colorado.....	29,782	1,074,000	2.7	North Carolina.....	38,714	2,897,000	1.3
Connecticut.....	101,143	1,636,000	6.2	North Dakota.....	26,837	364,192	4.2
Delaware.....	5,744	243,000	2.4	Ohio.....	277,764	6,710,000	4.1
Dist. of Columbia.....	27,341	540,000	5.1	Oklahoma.....	32,507	2,384,000	1.4
Florida.....	41,469	1,363,000	3.0	Oregon.....	26,831	890,000	3.0
Georgia.....	29,535	3,171,000	0.9	Pennsylvania.....	432,458	9,730,000	4.4
Idaho.....	14,287	534,000	2.7	Rhode Island.....	40,757	704,000	5.8
Illinois.....	134,211	7,296,000	1.8	South Carolina.....	12,323	1,845,000	0.7
Indiana.....	106,961	3,150,000	3.4	South Dakota.....	12,089	696,000	1.7
Iowa.....	84,893	2,435,000	3.5	Tennessee.....	28,032	2,435,000	1.2
Kansas.....	52,987	2,538,000	2.9	Texas.....	82,098	5,397,000	1.5
Kentucky.....	44,410	2,538,000	1.7	Utah.....	9,635	522,000	1.8
Louisiana.....	65,006	1,934,000	3.4	Vermont.....	41,328	235,428	11.7
Maine.....	36,673	793,000	4.6	Virginia.....	56,070	2,546,000	2.2
Maryland.....	46,720	1,597,000	2.9	Washington.....	48,279	1,562,000	3.1
Massachusetts.....	238,748	4,242,000	5.6	West Virginia.....	35,275	1,696,000	2.1
Michigan.....	218,269	4,490,000	4.9	Wisconsin.....	54,458	2,918,000	1.9
Minnesota.....	86,476	2,686,000	3.2	Wyoming.....	10,376	241,000	4.3
Mississippi.....	54,852	2,790,618	3.1	<b>At Large</b> .....	<b>4,703</b>		
Missouri.....	132,966	3,510,000	3.8	<b>Insular territories and possessions</b> .....	<b>83,794</b>		

<sup>1</sup> Includes Alaska

<sup>2</sup> Population Jan. 1, 1920.

<sup>3</sup> Population State census, 1925.

## No. 165.—WAR PENSIONERS AND DISBURSEMENTS FOR PENSIONS

NOTE.—Provision for those participating in the World War or their dependents was made by other methods (see subsequent tables) and the expenditures are not included in this table except in the case of a few individuals whose claims were based on disability or death resulting from disability of service origin prior to April 6, 1917, and after July 2, 1921, and who come under the jurisdiction of the Pension Bureau

June 30 or year ended June 30—	Number on rolls			Dis- burse- ments for pen- sions	Main- te- nance and ex- penses	June 30 or year ended June 30—	Number on rolls			Dis- burse- ments for pen- sions	Main- te- nance and ex- penses
	In- valids	Wid- ows, etc.	Total				In- valids	Wid- ows, etc.	Total		
1866.....	55,652	71,070	126,722	15,450	407	1903....	729,356	267,189	996,545	137,760	3,993
1870.....	87,521	111,165	198,686	29,351	600	1904....	720,921	273,841	994,762	141,094	3,849
1875.....	122,989	111,832	234,821	29,270	982	1905....	717,761	280,680	998,441	141,143	3,722
1880.....	145,410	105,392	250,802	56,689	935	1906....	701,483	284,488	985,971	139,000	3,523
1881.....	164,110	104,720	268,830	50,583	1,072	1907....	679,937	287,434	967,371	138,155	3,309
1882.....	182,633	103,064	285,697	54,313	1,466	1908....	658,071	293,616	951,687	153,093	2,801
1883.....	206,042	97,616	303,658	60,428	2,592	1909....	632,557	313,637	946,194	161,974	2,853
1884.....	225,470	97,286	322,756	57,912	2,835	1910....	602,180	318,903	921,083	159,974	2,658
1885.....	247,146	97,979	345,125	65,172	3,393	1911....	570,050	322,048	892,098	157,325	2,517
1886.....	270,346	95,437	365,783	64,091	3,245	1912....	538,000	322,294	860,294	152,986	2,449
1887.....	306,298	99,709	406,007	73,753	3,753	1913....	503,633	316,567	820,272	174,172	2,543
1888.....	343,701	108,856	452,557	78,951	3,515	1914....	470,331	314,908	785,239	172,418	2,067
1889.....	373,699	116,026	489,725	88,543	3,467	1915....	437,448	310,699	748,147	165,518	1,780
1890.....	415,654	122,290	537,944	106,094	3,526	1916....	403,120	306,452	709,572	159,155	1,657
1891.....	536,321	139,339	675,660	117,313	4,701	1917....	369,936	303,175	673,111	160,895	1,563
1892.....	703,242	172,826	876,068	139,394	4,899	1918....	340,318	306,582	646,895	179,835	1,528
1893.....	759,706	206,306	966,012	156,907	4,868	1919....	313,140	311,287	624,427	222,159	1,433
1894.....	754,382	215,162	969,544	139,987	3,964	1920....	285,219	306,971	592,190	213,295	1,395
1895.....	751,456	219,068	970,524	139,812	4,338	1921....	267,731	298,322	566,053	258,721	1,390
1896.....	748,514	222,164	970,678	138,221	3,991	1922....	256,918	290,098	547,016	253,808	1,394
1897.....	747,492	228,522	976,014	139,950	3,988	1923....	253,686	286,070	539,756	263,013	1,992
1898.....	758,511	235,203	993,714	144,652	4,114	1924....	248,116	277,423	525,539	229,995	1,498
1899.....	754,104	237,415	991,519	138,462	4,148	1925....	244,886	267,651	512,537	217,151	1,489
1900.....	752,510	241,019	993,529	138,355	3,842	1926....	246,139	255,584	501,723	207,844	1,436
1901.....	748,649	249,086	997,735	138,351	3,869	1927....	246,194	243,748	489,942	230,153	1,327
1902.....	739,443	260,003	999,446	137,504	3,831	1928....	259,030	232,164	491,194	223,966	1,215

## PENSIONS OF THE SEVERAL WARS

War	Total pay- ments, 1790 to June 30, 1928	Number on rolls June 30—		Amount paid, year ended June 30—		Value of average pension	
		1920	1928	1920	1928	1920	1928
Total.....	\$7,720,464,744	592,190	491,194	\$213,295,311	\$228,965,672	\$340	\$466
War of the Revolution.....	70,000,000						
War of 1812.....	46,181,424	71	14	21,145	8,903	233	636
Indian wars.....	35,470,838	6,228	8,871	1,746,308	3,956,944	203	446
War with Mexico.....	58,600,427	2,571	849	676,682	544,406	240	641
Civil War.....	7,101,082,789	533,729	272,906	202,586,306	149,668,976	359	548
War with Spain.....	309,902,327	30,432	191,270	4,624,098	70,674,419	142	370
Regular establishment.....	82,477,286	19,031	17,220	3,604,038	4,095,763	181	238
World War.....	236,227	128	64	36,734	16,260	223	254
Unclassified.....	16,513,426						

## NUMBER RECEIVING SPECIFIED MONTHLY RATES OF PENSION JUNE 30, 1928

	\$12	\$20	\$25	\$30	\$40	\$50	\$65	\$72	\$90	Other rates
Regular establishment.....										
Soldiers.....	2,094	88	40	1,551	55	278	6	216	143	9,194
Widows, etc.....	2,384	373	164	272	68	67				227
Civil War.....										
Soldiers.....	3	3	1	27	1	402	31,528	35,902	6,318	287
Widows, etc.....	323	1,126	592	138,069	38,508	19,129	2			185
War with Spain.....										
Soldiers.....	202	45,952	39,447	36,353	23,586	17,056	1	1,202	75	1,201
Widows, etc.....	53	1,391	53	24,617	10	19				52
Other wars <sup>1</sup> .....										
Soldiers.....	1	607	107	739	895	2,892		2	2	12
Widows, etc.....	3	27		3,575	4	822		1		

<sup>1</sup> Not including 64 pensioners of the World War receiving from \$6 to \$100 per month

Source: Bureau of Pensions, Department of the Interior

**GENERAL NOTE.**—The following is a summary of the various forms of veterans' relief under the administration of the United States Veterans' Bureau.

**Compensation** is awarded for death or disability resulting from personal injuries received or diseases contracted in the military or naval service on or after April 6, 1917, and before July 2, 1921, or for an aggravation or recurrence of a preexisting disability resulting from such service. The rates of compensation range from \$8 per month for a temporary disability to \$200 per month for double permanent total disability. In some instances a \$50 allowance for an attendant is granted in addition to other compensation.

**Yearly renewable term insurance.**—During the period of the war and until July 2, 1927, yearly renewable term insurance ranging from \$500 to \$10,000 was issued. All term insurance not converted into permanent United States Government life insurance before July 2, 1927, lapsed. Claims upon such policies are paid in 240 monthly installments except where there is no beneficiary named or where the beneficiary named dies before receiving all of the payments, the remainder is paid in one sum.

**Medical and hospital care.**—In addition to compensation payments, the disabled person is furnished reasonable Government medical, surgical, and hospital service and supplies, and appliances considered reasonably necessary. Hospital facilities of this bureau are also available for veterans of the Spanish American War, the Philippine Insurrection, the Boxer Rebellion, or the World War, suffering from neuropsychiatric or tubercular ailments and diseases, paralysis agitans, encephalitis lethargica or amoebic dysentery, or the loss of sight of both eyes, whether such ailments or diseases are due to military service or otherwise. The bureau is also authorized to furnish hospitalization and necessary traveling expenses to veterans of any war since 1897, without regard to the nature or origin of their disabilities.

**Vocational rehabilitation.**—Under the act of July 27, 1918, honorably discharged members of the Army, Navy, or Marine Corps who were unable to carry on in a gainful occupation successfully were provided with vocational training at Government expense, including allowances for maintenance of them and their dependents. The act also provided for the placement of rehabilitated persons in suitable occupations. Veterans who suffered a compensable disability but were not vocationally handicapped were provided with instruction, including tuition and supplies, but were not given maintenance allowance. Rehabilitation activities of the bureau ceased with the close of the fiscal year 1928.

**United States Government life insurance.**—United States Government life insurance is issued in any multiple of \$500, not less than \$1,000 or more than \$10,000, upon the payment of premiums at a net peace-time rate, with no extra charge for administration or excess mortality due to the hazards of war. (For rates and forms of insurance see Tables 168 and 170.) The policies carry the usual provisions common to policies issued by commercial companies, such as extended insurance, paid-up insurance, cash surrenders, and loans. Dividends are also paid from excess of interest earnings and savings in mortality.

**Adjusted compensation.**—The act of May 19, 1924, authorized the payment of adjusted compensation to all veterans of the World War, excluding officers above the grade of captain in the Army or Marine Corps or similar rank in the Navy and Coast Guard. The rate of adjusted compensation for service in excess of 60 days is \$1 25 and \$1 per day and the amount of credit is limited to \$625 and \$500 for overseas and home service, respectively. Veterans entitled to not more than \$50 are paid in cash and others are given a 20-year endowment insurance policy for an amount that the adjusted service credit increased by 25 per cent would purchase at the age of the veteran on the birthday nearest the date of the certificate, with interest at 4 per cent compounded annually. An amendment authorized the bureau to make loans direct to the veteran; prior to its passage loans secured by adjusted service certificates could be made only by the banks.

**No. 166.—UNITED STATES VETERANS' BUREAU: DISBURSEMENTS BY FISCAL YEARS ENDED JUNE 30**

[All figures in thousands of dollars]

	Total to June 30, 1928	1924	1925	1926	1927	1928
<b>Grand total</b> .....	<b>2,254,232</b>	<b>415,138</b>	<b>393,756</b>	<b>436,105</b>	<b>405,348</b>	<b>439,157</b>
<b>Disbursements from appropriations</b> .....	<b>1,938,298</b>	<b>407,635</b>	<b>384,787</b>	<b>426,237</b>	<b>393,584</b>	<b>421,529</b>
Losses on war-risk insurance on American vessels, their cargoes, etc.....	35,103	4	2	1 34		
Military and naval family allowance.....	282,197	1 1	7	1 7	1 87	1 24
Military and naval insurance <sup>1</sup> .....	427,876	101,240	104,137	136,975	120,964	120,771
Military and naval compensation.....	485,015	115,495	129,597	164,437	173,477	181,800
Vocational rehabilitation.....	449,201	106,954	60,483	25,841	2,206	233
Medical and hospital services, U. S. Veter- ans' Bureau.....	165,697	29,619	33,033	31,198	31,555	30,167
Hospital facilities and services.....	3,560	9,215	3,895	4,511	4,599	5,222
Salaries and expenses, Veterans' Bureau.....	82,863	43,073	45,001	42,164	36,354	37,815
Soldiers' and sailors' civil relief claims.....	20	20				
Printing and binding.....		107	158	136	127	134
Increase of compensation.....	6,766	1,029	6	1 9		
Administrative expenses adjusted compen- sation, 1924-25.....			809	26		
Adjusted service and dependent pay.....			2,038	5,628	9,960	10,153
Adjusted service certificate fund.....			4,607	15,355	14,408	35,254
All other.....			14	12	21	4
<b>Disbursements from trust funds</b> .....	<b>315,934</b>	<b>7,503</b>	<b>9,869</b>	<b>9,868</b>	<b>11,764</b>	<b>17,628</b>
Allotment trust fund.....	300,977	14	3	1 14	1 100	1 36
United States Government life-insurance fund.....	14,890	7,482	8,962	9,882	11,864	17,664
Vocational rehabilitation gift fund.....	67	7	4			

<sup>1</sup> Credit.

<sup>2</sup>\$451,550,000 in premiums credited to this appropriation.

# No. 167.—VETERANS' INSURANCE AND COMPENSATION: DEATH AND DISABILITY AWARDS

NOTE—See general note, p. 159

	Total to June 30, 1928	Period or year ended June 30—					
		1917-1923	1924	1925	1926	1927	1928
Number of awards made during period or year							
Compensation—							
Total original awards.....	546,619	446,115	15,262	28,881	26,780	15,429	14,152
Original death.....	77,950	57,576	2,011	4,995	9,175	2,303	1,890
Original disability.....	468,669	388,539	13,251	23,886	17,605	13,126	12,262
Disability change to death.....	25,322	7,230	2,939	3,356	4,913	3,514	3,370
Term insurance—							
Total original awards.....	172,585	157,588	3,669	3,996	4,346	1,991	995
Original death.....	140,432	135,838	998	1,166	1,254	688	488
Original disability.....	32,153	21,750	2,671	2,830	3,092	1,303	507
Disability changed to death.....	16,067	9,611	1,808	1,578	1,538	852	680
Converted insurance—							
Total original awards.....	12,787	3,256	1,346	1,464	1,850	1,957	2,914
Original death.....	8,242	2,395	842	970	1,014	1,199	1,822
Original disability.....	4,545	861	504	494	836	758	1,092
Disability changed to death.....	994	138	126	149	173	190	218
Number of awards active at end of period or year							
Compensation—		238,395	237,147	277,602	305,177	326,450	343,170
Death.....		55,305	58,110	65,958	78,693	82,339	85,634
Disability.....		183,090	179,037	211,644	226,484	243,611	257,536
Term insurance.....		146,403	149,857	153,331	154,881	146,047	144,081
Death.....		139,177	141,754	143,823	144,057	135,005	133,107
Disability.....		7,226	8,103	9,508	10,824	11,042	10,974
Converted insurance.....		1,480	2,054	2,602	3,375	4,086	5,298
Death.....		811	1,032	1,276	1,462	1,694	2,075
Disability.....		669	1,022	1,326	1,913	2,392	3,223

# No. 168.—GOVERNMENT LIFE INSURANCE: ANNUAL PREMIUM RATES ON \$1,000 INSURANCE, BY SPECIFIED FORMS OF INSURANCE

Age at conversion	Ordinary life	20-payment life	30-payment life	20-year endowment	30-year endowment	Endowment at age 62	5-year convertible term	Age at conversion	Ordinary life	20-payment life	30-payment life	20-year endowment	30-year endowment	Endowment at age 62	5-year convertible term
	Dolls	Dolls	Dolls	Dolls	Dolls	Dolls	Dolls		Dolls	Dolls	Dolls	Dolls	Dolls	Dolls	Dolls
15	12 29	19 25	15 36	38 86	23 98	14 88	7 44	43	26 58	33 43	28 11	42 53	30 12	44 77	10 87
16	12 52	19 61	15 59	38 86	24 10	15 24	7 44	44	27 04	34 38	29 06	42 88	30 95	47 72	11 22
17	12 76	19 85	15 83	38 98	24 10	15 59	7 56	45	28 71	35 32	30 00	43 47	31 66	50 91	11 69
18	12 99	20 20	16 07	38 98	24 22	16 07	7 56	46	29 80	36 38	31 19	43 94	32 60	54 69	12 17
19	13 23	20 44	16 30	38 98	24 22	16 54	7 56	47	31 19	37 56	32 25	44 65	33 55	58 83	12 75
20	13 58	20 79	16 54	39 10	24 33	17 01	7 68	48	32 60	38 75	33 55	45 36	34 61	63 67	13 47
21	13 82	21 14	16 89	39 10	24 33	17 48	7 68	49	34 02	39 93	34 85	46 07	35 79	69 22	14 18
22	14 18	21 60	17 13	39 10	24 45	18 07	7 80	50	35 56	41 34	36 38	47 02	37 09	75 72	15 00
23	14 53	21 85	17 48	39 22	24 45	18 68	7 80	51	37 21	42 76	37 00	47 96	38 51	83 28	15 95
24	14 88	22 21	17 84	39 22	24 57	19 25	7 91	52	38 98	44 30	38 00	49 02	40 05	92 49	16 89
25	15 24	22 56	18 07	39 34	24 69	19 85	7 91	53	40 87	45 83	39 00	50 20	41 82	100 00	18 07
26	15 59	23 04	18 43	39 34	24 81	20 55	8 03	54	42 58	47 61	40 00	51 62	43 59	100 00	19 37
27	15 95	23 39	18 78	39 45	24 93	21 26	8 03	55	45 13	49 50	41 00	53 04	45 60	100 00	20 79
28	16 42	23 86	19 14	39 45	25 04	22 09	8 15	56	47 37	51 50	42 00	54 69	47 00	100 00	22 33
29	16 89	24 33	19 61	39 57	25 16	22 92	8 27	57	49 85	53 75	43 00	56 47	48 00	100 00	24 10
30	17 36	24 81	19 96	39 69	25 40	23 74	8 39	58	52 45	55 99	44 00	58 47	49 00	100 00	26 11
31	17 84	25 28	20 44	39 81	25 52	24 69	8 51	59	55 28	58 59	45 00	60 72	50 00	100 00	28 23
32	18 31	25 87	20 91	39 93	25 75	25 75	8 62	60	58 36	61 31	46 00	63 08	51 00	100 00	30 60
33	18 90	26 34	21 38	40 05	25 99	26 82	8 74	61	61 66	63 00	47 00	66 00	52 00	100 00	33 19
34	19 49	26 93	21 85	40 16	26 22	28 00	8 86	62	65 21	65 00	48 00	69 00	53 00	100 00	36 15
35	20 08	27 52	22 44	40 28	26 46	29 30	8 98	63	68 99	67 00	49 00	72 00	54 00	100 00	39 34
36	20 79	28 11	23 04	40 52	26 82	30 71	9 10	64	73 00	70 00	50 00	75 00	55 00	100 00	42 88
37	21 38	28 82	23 63	40 64	27 17	32 13	9 33	65	77 37	73 00	51 00	78 00	56 00	100 00	46 78
38	22 33	29 53	24 22	40 87	27 52	33 78	9 45	66	82 10	77 00	52 00	81 00	57 00	100 00	51 15
39	22 92	30 24	24 93	41 11	27 88	35 56	9 69	67	87 18	80 00	53 00	84 00	58 00	100 00	55 87
40	23 74	30 95	25 63	41 46	28 47	37 56	9 92	68	92 61	83 00	54 00	87 00	59 00	100 00	61 07
41	24 69	31 78	26 34	41 70	28 94	39 69	10 28	69	98 40	88 00	55 00	90 00	60 00	100 00	66 82
42	25 52	32 60	27 17	42 05	29 53	42 05	10 61	70	104 78	93 00	56 00	93 00	61 00	100 00	72 77

Source of Tables 167 and 168: United States Veterans' Bureau.

# **No. 169.—GOVERNMENT LIFE INSURANCE. AMOUNT IN FORCE AND PREMIUMS COLLECTED DIRECT BY VETERANS' BUREAU**

NOTE.—See general note, p. 159. During the war premiums on term insurance were collected by the War and Navy Departments, more recently, direct by the Veterans' Bureau, except for those in service

	Insurance policies in force June 30						Premiums collected direct by Veter- ans' Bureau dur- ing period or year ended June 30	
	Term insurance			Converted insurance				
	Total	Men in service	Men out of service	Total	Men in service	Men out of service	Term insur- ance	Con- verted insur- ance
Number:								
1921 <sup>1</sup>	397,890	96,176	301,714	253,164	39,828	213,336	8,913,466	1,901,230
1922	300,926	48,335	252,591	280,552	25,005	255,547	3,008,191	1,364,970
1923	240,291	26,725	213,566	319,774	21,557	298,217	2,466,222	1,525,324
1924	209,385	18,913	190,472	353,215	19,576	333,639	2,090,855	1,712,810
1925	177,328	12,231	165,097	375,012	21,427	353,585	1,748,753	1,880,734
1926	130,103	6,655	123,448	423,557	25,560	397,997	1,500,111	2,060,421
1927	87,100	2,351	84,749	500,880	29,588	471,292	979,318	2,440,325
1928	266		266	660,108	31,893	628,215		3,593,159
Amount (1,000 dollars).								
1921 <sup>1</sup>	2,980,660	567,496	2,413,165	868,716	136,667	732,049	61,017	32,624
1922	2,314,663	331,623	1,983,040	1,033,737	92,036	941,701	20,755	26,864
1923	1,854,146	183,358	1,670,787	1,216,061	81,979	1,134,085	17,401	30,919
1924	1,609,031	120,805	1,479,225	1,375,543	97,956	1,277,587	14,731	35,345
1925	1,372,091	89,597	1,282,494	1,492,937	111,694	1,381,243	13,105	39,388
1926	1,008,511	52,281	956,230	1,773,076	138,284	1,634,792	10,650	44,417
1927	672,075	19,308	652,767	2,220,970	170,174	2,050,796	7,258	54,047
1928	1,654		1,654	3,111,995	181,322	2,930,673	906	71,113

<sup>1</sup> Premiums collected are totals from origin to June 30, 1921

# **No. 170.—GOVERNMENT LIFE INSURANCE: CONVERTED INSURANCE ISSUED AND IN FORCE, BY PLAN**

Plan	Issued to June 30, 1923					In force June 30, 1928	
	Number	Amount (1,000 dollars)	Average policy	Per cent of total		Number	Amount (1,000 dollars)
				Number	Amount		
Total.....	814,853	3,636,868	\$4,463	100 00	100 00	660,108	3,111,995
Ordinary life.....	167,285	865,792	5,176	20 53	23 81	136,010	734,816
20-payment life.....	204,271	870,683	4,262	25 07	23 94	169,842	746,944
30-payment life.....	32,423	164,576	5,076	3 98	4 52	28,746	147,985
20-year endowment.....	210,617	562,042	2,669	25 85	15 45	131,615	394,549
30-year endowment.....	42,009	177,451	4,224	5 15	4 88	35,411	151,986
Endowment at age 62.....	39,963	192,979	4,829	4 90	5 31	35,031	171,026
Convertible term.....	118,285	803,345	6,791	14 52	22 09	104,362	710,970
Extended insurance.....						19,091	63,719

# **No. 171.—GOVERNMENT LIFE INSURANCE FUND: FINANCIAL STATEMENT OF FUNDS FROM ORIGIN, MAY 31, 1919, TO JUNE 30, 1928**

	Total to June 30, 1928	Year ended June 30, 1928		Total to June 30, 1928	Year ended June 30, 1928
Income, total.....	\$397,355,840	\$87,097,726	Disbursements—Contd		
Premiums.....	324,427,083	69,112,854	Dividends.....	\$19,714,258	\$4,671,455
Interest on investments.....	38,551,773	9,340,566	Interest on dividend deposits.....	699	331
Repayments under sec 406 as amended Aug 9, 1921.....	28,999,142	7,325,645	Payments on matured endowment.....	39,185	15,325
Profit on sale of investments.....	3,129,389	493,811	Balance, total.....	326,611,433	
Interest on loans.....	2,202,779	810,654	Investment and interest.....	217,210,858	
Interest on premiums.....	45,774	13,996	Loans on adjusted service certificates.....	72,608,506	
Disbursements, total.....	70,744,507	17,664,330	Loans on policies.....	34,645,383	
Paid on claims.....	43,663,461	11,619,916	Cash on hand.....	2,146,686	
Paid on surrenders.....	7,326,904	1,857,303			

Source of Tables 169, 170, and 171. United States Veterans' Bureau.



## No. 172.—VOCATIONAL REHABILITATION OF DISABLED VETERANS

NOTE—See general note, p. 159

	July 1							
	1921	1922	1923	1924	1925	1926	1927	1928
Total number entered training to date.....	107, 172	152, 364	167, 815	173, 632	179, 747	180, 109	179, 358	179, 519
Number whose training has ceased to date.....	7, 785	23, 998	59, 958	123, 465	156, 810	178, 082	179, 120	179, 519
Discontinued.....	2, 490	6, 283	16, 864	42, 989	48, 134	49, 071	<sup>1</sup> 48, 891	<sup>1</sup> 48, 773
Deceased after induction.....	245	749	1, 329	1, 845	2, 068	1, 976	2, 030	<sup>1</sup> 1, 999
Rehabilitated (sec 2).....	4, 459	15, 321	38, 043	70, 936	97, 215	116, 512	117, 636	118, 355
Completed (sec 3).....	591	1, 645	3, 722	7, 695	9, 393	10, 523	10, 563	10, 392
Number in training at date specified.....	85, 338	102, 108	80, 359	45, 347	21, 803	<sup>2</sup> 2, 027	185	-----
Institutions.....	( <sup>3</sup> )	57, 805	39, 700	15, 492	5, 303	757	127	-----
Placement.....	( <sup>3</sup> )	38, 246	36, 270	22, 074	12, 135	696	12	-----
Veterans' Bureau vocational schools.....	5, 425	6, 057	4, 389	1, 599	-----	-----	-----	-----
Project.....	-----	-----	-----	4, 030	3, 270	496	-----	-----
Correspondence courses.....	-----	-----	-----	2, 078	1, 030	65	44	-----
Tutorial.....	-----	-----	-----	74	65	1	2	-----
Number whose training had been interrupted.....	14, 049	26, 258	27, 498	4, 820	1, 134	2, 027	53	-----

<sup>1</sup> The apparent decrease is due to a recheck of data and elimination of duplication.<sup>2</sup> Includes 12 not classified. Due to legislative provisions, all trainees were interrupted as of July 1, 1926.<sup>3</sup> Not classified.

Source. United States Veterans' Bureau

## No. 173.—HOSPITALIZATION: UNITED STATES VETERANS' BUREAU BENEFICIARIES, YEARS ENDED JUNE 30

NOTE—See general note, p 159

Groups of hospitals	Capacity	Average daily patients, period of operation	Patients remaining at expiration of year				Personnel on duty at close of year	Operating expenses	Per diem cost
			Total	Tuberculosis	Neuropsychiatric	General			
U. S. Veterans' Bureau hospitals.....									
1923.....	18, 693	12, 264	10, 429	4, 773	3, 438	2, 218	9, 889	\$21, 839, 009	<sup>1</sup> \$4 91
1924.....	15, 616	11, 274	11, 984	4, 986	5, 182	1, 816	10, 178	19, 484, 142	<sup>1</sup> 4 55
1925.....	20, 504	15, 855	15, 743	6, 013	7, 433	2, 297	12, 818	23, 354, 485	<sup>1</sup> 4 04
1926.....	20, 483	16, 569	16, 241	5, 299	8, 462	2, 480	12, 662	25, 321, 554	<sup>1</sup> 4 19
1927.....	20, 640	17, 305	16, 911	5, 023	9, 081	2, 807	12, 653	25, 282, 431	<sup>1</sup> 4 00
1928.....	21, 233	17, 849	17, 996	4, 854	10, 044	3, 098	13, 542	26, 091, 386	<sup>1</sup> 4 00
1928									
U. S. marine hospitals.....	<sup>2</sup> 407	1, 916	373	14	1	358	-----	-----	-----
U. S. Army hospitals.....	<sup>2</sup> 2, 684	1, 540	1, 919	525	202	1, 192	-----	-----	-----
U. S. Navy hospitals.....	<sup>2</sup> 2, 720	1, 752	1, 647	69	169	1, 409	-----	-----	-----
National soldiers' homes.....	<sup>2</sup> 2, 243	259	1, 582	582	662	338	-----	-----	-----
Interior Department (St Elizabeths).....	<sup>2</sup> 359	368	359	-----	359	-----	-----	-----	-----
Contract hospitals.....	-----	2, 689	2, 263	498	1, 620	145	-----	-----	-----

<sup>1</sup> Excludes hospitals which operated for only part of year under unnatural conditions.<sup>2</sup> Represents only those hospital beds made available to patients of the U. S. Veterans' Bureau.

Source. United States Veterans' Bureau.

# No. 174.—ADJUSTED COMPENSATION AWARDS: NUMBER AND AMOUNT TO JUNE 30, 1928

NOTE.—See general note, p. 159

Branch of service and claim	Number	Amount (1,000 dollars)	Branch of service and claim	Number	Amount (1,000 dollars)
<b>Grand total</b> -----	<b>3, 508, 549</b>	<b>3, 408, 644</b>	<b>Navy—Continued</b>		
<b>Army, total</b> -----	<b>3, 015, 616</b>	<b>2, 890, 515</b>	Dependents (over \$50) 1----	7, 743	3, 212
Cash (less than \$50).-----			Certificates-----	412, 754	446, 191
Veterans-----	106, 993	3, 813	\$60 lump-sum payments-----		75
Dependents-----	4, 972	136	<b>Marine Corps, total</b> -----	<b>64, 466</b>	<b>68, 432</b>
Dependents (over \$50) 1----	76, 205	26, 995	Cash (less than \$50)-----		
Certificates-----	2, 827, 446	2, 858, 457	Veterans-----	430	14
\$60 lump-sum payments-----		1, 114	Dependents-----	49	1
<b>Navy, total</b> -----	<b>428, 487</b>	<b>449, 696</b>	Dependents (over \$50) 1----	2, 120	858
Cash (less than \$50)-----			Certificates-----	61, 867	67, 518
Veterans-----	7, 593	208	\$60 lump-sum payments-----		40
Dependents-----	377	9			

1 Payments to dependents of more than \$50 are made in 10 equal quarterly installments

# No. 175.—CIVIL SERVICE RETIREMENT: SUMMARY, YEARS ENDED JUNE 30

NOTE.—Retirement for civil-service employees was established by act of May 22, 1920, and amended by act of July 1, 1926. Under these acts employees of the classified service with competitive status, most of the principal groups of unclassified laborers, postmasters appointed from the classified service, and certain other groups are eligible for retirement on annuity at the age of 70 (65 for letter carriers, post office and seaport clerks, laborers, and mechanics generally and 62 for railway postal clerks and persons engaged in tropical and hazardous occupations) if they have rendered 15 years of service. Provision is also made for retirement of employees in the service 15 years who, before reaching retirement age, become disabled. Annuities are computed by multiplying the average annual basic compensation, not to exceed \$1,500, received during the last 10 years of service by the number of years of service, not to exceed 30, and dividing the product by 45. Employees within the scope of the act are required to contribute 3½ per cent (2½ prior to July 1, 1926) of their basic compensation to the retirement fund.

	1927	1928		1927	1928
<b>Net gain in annuitants added to the roll</b> -----			<b>Number on the roll June 30—</b>		
Male-----	1, 595	1, 264	Continued.		
Female-----	1, 473	1, 167	<b>By vocations:</b>		
<b>Number dropped from roll</b> -----	<b>1, 170</b>	<b>1, 356</b>	Mechanics-----	3, 195	3, 362
<b>Number on the roll June 30</b> -----	<b>14, 119</b>	<b>15, 383</b>	City and village letter carriers-----	2, 414	2, 698
<b>By sex:</b>			Rural letter carriers-----	2, 205	2, 452
Male-----	12, 904	14, 071	Post-office clerks-----	1, 222	1, 355
Female-----	1, 215	1, 312	Railway mail clerks-----	1, 132	1, 191
<b>By cause of retirement</b>			Departmental and other-----	3, 112	3, 311
Age-----	11, 353	12, 173	Classified laborers-----	805	899
Male-----	10, 594	11, 361	Unclassified laborers-----		115
Female-----	759	812	Tropical service and hazardous occupation-----	34	
Disability-----	2, 766	3, 210	<b>By rates received</b>		
Male-----	2, 310	2, 710	Less than \$100-----	10	9
Female-----	456	500	Between \$100 and \$200-----	106	116
<b>By departments</b>			Between \$200 and \$300-----	409	428
State-----	8	6	Between \$300 and \$400-----	831	854
Treasury-----	1, 368	1, 403	Between \$400 and \$500-----	1, 765	1, 723
War-----	1, 485	1, 611	Between \$500 and \$600-----	1, 580	1, 590
Justice-----	27	34	Between \$600 and \$700-----	1, 508	1, 655
Post office-----	7, 342	8, 105	Between \$700 and \$800-----	1, 528	1, 761
Navy-----	1, 901	2, 036	Between \$800 and \$900-----	2, 117	2, 277
Interior-----	647	670	Between \$900 and \$999 96-----	1, 545	1, 668
Agriculture-----	232	325	The maximum, \$999 96-----	2, 740	3, 302
Commerce-----	140	157	<b>Average annuity</b> -----	<b>\$721</b>	<b>\$734</b>
Labor-----	77	82	<b>Annual value, retirement roll</b> -----	<b>10, 185, 305</b>	<b>11, 289, 891</b>
District of Columbia-----	73	85	<b>Civil service retirement and disability fund:</b>		
Government Printing Office-----	531	545	Receipts-----	27, 168, 463	29, 502, 856
Superintendent of Public Buildings and Parks-----	59	66	Disbursements, total-----	13, 460, 708	14, 761, 617
U. S. Veterans' Bureau-----	32	46	Annuities-----	9, 598, 286	10, 990, 464
General Accounting Office-----	137	133	Refunds-----	3, 862, 289	3, 771, 163
Library of Congress-----	13	15	Balance in fund June 30-----	68, 336, 761	83, 078, 000
All others-----	47	64	<b>Administrative expense</b> -----	<b>75, 977</b>	<b>75, 982</b>

Sources Table 174, United States Veterans' Bureau, Table 175, Commissioner of Pensions

## No. 176.—EXECUTIVE CIVIL SERVICE AND THE MERIT SYSTEM

June 30—	Approximate number of employees	Approximate number of classified employees	June 30—	Approximate number of employees	Approximate number of classified employees	June 30—	Approximate number of employees	Approximate number of classified employees
1816.....	6,327	-----	1895.....	189,000	54,222	1918 (Nov 11)	917,760	642,432
1821.....	8,211	-----	1901.....	256,000	106,205	1920 (July 31)	691,116	497,603
1831.....	19,800	-----	1903.....	301,000	122,000	1921 (July 31)	597,482	448,112
1841.....	23,700	-----	1907.....	349,000	171,807	1922.....	560,863	420,688
1851.....	33,300	-----	1909.....	306,000	196,918	1923.....	548,531	411,398
1861.....	49,200	-----	1905.....	370,000	234,940	1924.....	554,986	415,593
1871.....	53,900	-----	1911.....	370,000	227,557	1925.....	564,718	423,538
1881.....	107,000	-----	1913.....	443,605	282,697	1926.....	560,705	422,300
1894 (Jan. 15)	-----	13,780	1915.....	461,993	292,296	1927.....	559,138	422,998
1891.....	166,000	33,873	1916.....	438,057	296,926	1928.....	568,715	431,763

## No. 177.—EMPLOYEES IN THE FEDERAL EXECUTIVE CIVIL SERVICE

NOTE.—Does not include legislative or judicial services nor the commissioned, warranted, or enlisted personnel of the military, naval, Marine Corps, or Coast Guard services. The government of the District of Columbia is also not included

Department or office	Total				Dec. 31, 1928				
	June 30, 1916	July 31, 1921	Dec 31, 1926	Dec 31, 1927	Total	In District of Columbia		Outside District of Columbia	
						Male	Female	Male	Female
Total.....	438,057	597,482	546,341	554,175	573,107	37,404	24,736	455,568	55,399
Department of State.....	2,783	3,733	4,270	4,375	4,482	305	293	2,842	1,042
Department of the Treasury.....	30,629	73,230	51,519	51,949	51,855	6,107	7,749	31,157	6,842
Department of War.....	37,695	68,544	37,076	38,775	46,044	2,146	1,822	38,443	3,633
Department of Justice.....	2,610	3,081	3,671	3,760	3,931	570	245	2,417	699
Post Office Department.....	250,885	288,575	308,164	310,161	312,971	3,178	864	282,052	26,877
Department of the Navy.....	35,722	69,749	42,506	42,971	48,199	5,731	1,186	38,964	2,338
Department of the Interior.....	19,347	19,705	12,201	13,570	13,511	2,281	1,309	7,734	2,187
Department of Agriculture.....	18,736	19,179	20,624	21,335	22,478	2,899	2,036	15,094	2,449
Department of Commerce.....	9,903	13,046	14,537	14,937	15,499	3,059	1,742	9,892	806
Department of Labor.....	2,504	3,853	4,041	4,113	4,267	332	341	2,933	661
Government Printing Office.....	4,028	4,464	4,142	4,076	4,101	3,308	833	-----	-----
Smithsonian Institution.....	784	457	488	498	521	387	134	-----	-----
Interstate Com. Com'n.....	2,243	1,919	1,856	1,999	1,996	1,039	331	609	17
Civil Service Commission.....	250	385	444	510	491	148	210	72	61
Bureau of Efficiency.....	27	55	51	67	71	42	29	-----	-----
Federal Trade Commission.....	238	318	302	286	322	216	106	-----	-----
Shipping Board <sup>2</sup> .....	-----	6,575	1,551	1,690	1,594	470	334	633	157
Alien Property Custodian.....	-----	162	233	194	184	97	87	-----	-----
Tariff Commission.....	-----	99	231	205	235	135	89	9	2
Employees' Comp Com'n.....	-----	79	68	85	174	39	74	22	39
Fed Bd for Voc'al Education.....	-----	6,411	69	69	68	33	35	-----	-----
The Panama Canal.....	19,291	9,355	9,690	10,147	11,019	61	14	10,443	501
Public Buildings and Parks of the National Capital.....	217	1,229	2,274	2,211	2,300	1,768	532	-----	-----
General Accounting Office.....	-----	1,544	1,984	1,949	1,960	1,208	752	-----	-----
Veterans' Bureau.....	-----	-----	23,587	23,618	23,927	1,528	3,270	12,064	7,065
Railroad Administration <sup>3</sup> .....	-----	1,327	95	34	25	17	8	-----	-----
War Finance Corporation <sup>4</sup> .....	-----	(4)	106	65	31	13	5	8	5
National Advisory Committee for Aeronautics.....	-----	(4)	164	187	199	16	17	159	7
Federal Reserve Board <sup>5</sup> .....	-----	(4)	204	202	186	83	84	19	-----
Board of Tax Appeals.....	-----	-----	109	154	153	69	84	-----	-----
Miscellaneous.....	165	322	84	83	223	119	91	2	11

  

	June 30, 1916	Nov 11, 1918	July 31, 1921	Dec. 31, 1925	Dec 31, 1926	Dec 31, 1927	Dec 31, 1928
Total.....	438,057	<sup>2</sup> 917,760	597,482	548,077	546,341	554,175	573,107
In District of Columbia.....	39,442	117,760	78,865	61,509	59,569	60,660	62,140
Outside District of Columbia.....	398,615	<sup>2</sup> 800,000	518,617	486,568	486,772	493,551	510,967

<sup>1</sup> Does not include clerks at fourth-class offices (34,024 in 1928), who are employed and paid by the post-master, and mail messengers (22,350 in 1928), because not included in previous computations.

<sup>2</sup> Figures include administrative offices of Emergency Fleet Corporation but not workmen at shipyards or in warehouses or employees on vessels

<sup>3</sup> Positions not subject to the civil service act

<sup>4</sup> Separate figures not available Included in miscellaneous.

Source of Tables 176 and 177: The Civil Service Commission.

**NO. 178.—CIVIL SERVICE: NUMBER OF PERSONS EXAMINED BY THE CIVIL SERVICE COMMISSION, NUMBER AND PER CENT WHO PASSED, NUMBER APPOINTED, AND APPROXIMATE NUMBER OF COMPETITIVE POSITIONS**

Year ended June 30—	Total					Post office service <sup>1</sup>					Railway Mail Service <sup>2</sup>					All other services				
	Classi- fied com- petitive posi- tions *	Exam- ined	Passed	Per cent that passed	Ap- pointed	Per ap- pointed of those passed	Classi- fied com- petitive posi- tions *	Exam- ined	Passed	Ap- pointed	Classi- fied com- petitive posi- tions *	Exam- ined	Passed	Ap- pointed	Classi- fied com- petitive posi- tions *	Exam- ined	Passed	Ap- pointed		
1885 <sup>4</sup>	15,500	6,347	4,141	65.2	1,800	43.5	7,500	3,233	2,262	1,249	5,836	4,463	3,120	1,400	8,090	3,114	1,879	551		
1886	30,626	22,994	13,947	60.7	5,182	37.2	13,097	11,103	6,901	2,850	7,045	4,641	3,107	1,400	11,693	7,338	3,914	932		
1887	48,317	31,036	19,811	63.8	4,793	24.2	25,000	19,438	12,802	3,348	7,045	4,641	3,107	1,400	16,272	6,957	3,902	802		
1888	49,883	46,692	34,965	75.0	9,889	28.3	37,000	16,584	11,447	3,931	8,696	4,488	3,844	1,558	23,530	10,674	5,222	1,441		
1889	171,807	143,083	111,741	78.1	38,996	34.9	81,866	42,302	41,678	16,297	12,171	6,972	4,218	2,173	81,320	63,531	65,545	21,141		
1890	134,178	117,277	91,345	77.9	39,050	42.7	85,202	48,302	37,918	17,121	13,556	6,620	4,461	2,173	81,320	62,355	48,946	19,756		
1891	196,918	139,317	93,290	72.6	43,003	45.8	95,866	51,025	37,771	16,459	14,212	6,566	4,065	2,651	86,840	71,726	62,064	24,496		
1892	206,638	161,703	120,760	74.6	42,153	34.9	102,127	52,353	37,850	12,169	15,200	6,674	5,969	1,607	86,840	91,756	76,911	28,377		
1893	234,940	185,448	123,440	77.9	40,943	33.2	122,711	57,563	45,468	11,441	15,967	15,724	11,336	1,392	96,262	85,192	67,640	28,110		
1894	222,278	115,644	87,709	75.9	43,585	47.9	126,131	37,283	30,170	11,812	16,966	17,428	11,336	2,271	79,191	73,339	57,560	20,502		
1895	227,657	105,024	70,159	66.8	23,256	33.2	127,228	42,750	34,149	9,328	17,428	8,972	6,760	1,982	83,001	53,302	20,230	11,946		
1896	217,392	106,078	56,251	55.9	20,969	35.4	115,905	40,256	26,133	8,796	18,297	11,273	3,096	1,770	83,190	54,549	30,082	11,463		
1897	282,597	141,905	94,390	66.5	35,154	37.2	161,846	59,181	39,810	14,905	19,620	18,340	9,616	1,270	101,131	64,384	44,964	18,979		
1898	292,460	215,557	147,526	68.4	41,935	28.4	165,646	103,678	70,257	19,606	22,679	27,664	19,665	2,941	104,135	84,245	51,004	19,388		
1899	292,296	167,705	114,632	68.3	36,398	31.8	166,328	70,734	52,586	13,682	21,769	33	17	2,941	104,135	84,245	62,020	22,570		
1900	326,899	212,122	113,980	73.7	42,057	36.9	166,375	72,122	55,614	17,729	20,989	21,191	1	28	108,562	82,599	58,365	24,300		
1901	614,432	551,391	337,963	70.4	86,312	55.0	167,639	51,415	38,560	19,669	21,191	13,075	10,433	48	138,069	146,723	107,034	66,700		
1902	593,745	438,259	290,826	68.4	133,533	55.0	188,201	56,268	41,309	20,572	20,833	9,927	1,867	8,297	437,693	402,166	344,737	175,661		
1903	497,003	293,327	193,995	66.1	116,309	60.0	196,449	58,922	39,667	17,181	21,717	12,866	7,571	4,269	279,437	221,539	146,667	94,859		
1904	448,112	303,809	203,208	67.0	101,711	50.1	205,352	114,033	74,977	32,601	22,320	15,893	9,849	6,014	220,440	173,473	118,383	63,066		
1905	420,683	206,007	128,952	62.6	63,867	49.5	206,533	70,120	43,984	25,186	22,227	12,800	8,694	910	188,928	122,967	76,274	37,771		
1906	411,398	204,200	122,918	60.2	57,694	46.9	212,078	61,122	40,583	22,880	22,652	25,510	12,800	6,014	188,928	122,967	76,274	37,771		
1907	415,593	222,915	133,506	59.9	68,287	51.1	222,270	77,892	52,675	27,237	22,073	25,510	12,800	6,014	188,928	122,967	76,274	37,771		
1908	423,538	201,415	122,493	60.8	50,164	40.0	226,801	77,978	50,647	20,560	22,340	25,510	12,800	6,014	188,928	122,967	76,274	37,771		
1909	422,900	202,846	105,964	52.2	36,992	34.9	226,021	89,855	42,591	16,561	22,340	25,510	12,800	6,014	188,928	122,967	76,274	37,771		
1910	422,900	202,846	105,964	52.2	36,992	34.9	226,021	89,855	42,591	16,561	22,340	25,510	12,800	6,014	188,928	122,967	76,274	37,771		
1911	422,900	202,846	105,964	52.2	36,992	34.9	226,021	89,855	42,591	16,561	22,340	25,510	12,800	6,014	188,928	122,967	76,274	37,771		
1912	431,763	236,997	123,830	52.2	37,796	30.5	238,449	100,576	49,279	15,882	21,343	29,481	15,717	705	171,971	136,227	74,461	21,209		
Total from July 16, 1883	5,834,879	3,879,753	2,573,753	66.5	1,644,023	42.4	1,953,984	1,307,749	833,230	583,230	327,355	203,065	59,171	-----	3,583,500	2,368,939	1,051,622	-----		

<sup>1</sup> Includes clerks, city carriers, village carriers, and employees in motor-vehicle service at classified post offices, rural carriers, fourth-class postmasters, and seapost clerks.

<sup>2</sup> Railway mail clerks, classified May 1, 1889.

<sup>3</sup> The large increase in field service figures for 1913 is due to the inclusion of navy-yard artisans' positions to the number of about 16,000 in the competitive classified service.

<sup>4</sup> 11,635 fourth-class postmasters, appointed in 1914 and 18,288 in 1915, under the Executive order of May 7, 1913, requiring examinations at offices whose incumbents have not been appointed under the regulations, are not included in this table.

Source The Civil Service Commission.

# No. 179.—POPULAR VOTE FOR PRESIDENTIAL ELECTORS: BY PRINCIPAL POLITICAL PARTIES, TOTALS, 1888 TO 1928, AND BY STATES, 1928

Note.—The column "miscellaneous independent" represents so-called independent, progressive, and farmer-labor parties variously designated as follows 1888, Union Labor Party; 1892, 1900, and 1904, Populist, 1896, National Democrat, 1908, Populist and Independent, 1912 and 1916, Progressive; 1920 and 1928, Farmer-Labor. In 1924, column represents votes for La Follette-Wheeler electors, variously designated under party names as Independent Progressive, Progressive, Socialist, Socialist and Independent, Farmer-Labor, etc.

State	Republican	Democrat	Socialist and Social-ist-Labor	Miscellaneous independent <sup>1</sup>	Prohibition	Total <sup>2</sup>
1888.....	5,444,337	5,540,050	-----	146,897	250,124	11,381,408
1892.....	5,190,802	5,554,414	-----	1,027,329	271,058	12,043,603
1896.....	7,035,638	6,467,946	<sup>3</sup> 36,454	131,529	141,676	13,813,243
1900.....	7,219,530	6,358,071	127,519	50,232	209,166	13,964,518
1904.....	7,628,834	5,084,491	436,184	114,753	259,257	13,528,519
1908.....	7,679,006	6,409,106	434,645	111,693	252,683	14,887,138
1912.....	3,483,922	6,286,214	926,090	<sup>4</sup> 1,120,020	208,923	15,031,169
1916.....	8,538,221	9,129,606	598,516	41,894	220,506	18,528,743
1920.....	16,152,200	9,147,353	950,974	265,411	189,408	26,705,346
1924.....	15,725,003	8,885,586	<sup>5</sup> 27,650	<sup>1</sup> 4,826,471	57,551	29,022,261
1928.....	21,392,190	15,016,443	289,023	6,300	20,106	36,879,414
Alabama.....	120,725	127,797	460	-----	-----	248,982
Arizona.....	52,533	38,537	-----	-----	-----	91,254
Arkansas.....	77,751	119,196	429	-----	-----	197,693
California.....	1,162,323	614,365	19,595	-----	-----	1,796,656
Colorado.....	253,872	133,131	3,472	1,092	-----	392,242
Connecticut.....	296,614	252,040	3,641	-----	-----	553,031
Delaware.....	68,860	36,643	329	-----	-----	105,891
Florida.....	144,168	101,764	4,036	-----	-----	253,674
Georgia.....	63,498	129,602	124	-----	-----	<sup>6</sup> 229,159
Idaho.....	99,848	53,074	1,308	-----	-----	154,230
Illinois.....	1,769,141	1,313,817	20,950	-----	-----	3,107,489
Indiana.....	848,290	562,691	4,516	-----	5,496	1,421,314
Iowa.....	623,818	578,956	3,190	3,088	-----	1,009,362
Kansas.....	513,672	193,008	6,205	-----	-----	713,200
Kentucky.....	538,024	381,070	1,177	-----	-----	940,604
Louisiana.....	51,160	164,655	-----	-----	-----	215,833
Maine.....	179,923	81,179	1,068	-----	-----	262,171
Maryland.....	301,479	223,626	<sup>6</sup> 2,607	-----	-----	525,348
Massachusetts.....	775,566	792,758	7,035	-----	-----	1,577,827
Michigan.....	965,396	396,762	4,315	-----	2,728	1,372,082
Minnesota.....	560,977	396,451	<sup>6</sup> 8,695	-----	-----	970,976
Mississippi.....	27,153	124,539	-----	-----	-----	151,692
Missouri.....	834,080	662,562	4,079	-----	-----	1,500,721
Montana.....	113,300	78,578	1,667	-----	-----	194,108
Nebraska.....	345,745	197,959	3,434	-----	-----	547,138
Nevada.....	18,327	14,090	-----	-----	-----	32,417
New Hampshire.....	115,404	80,715	455	-----	-----	196,747
New Jersey.....	926,050	616,517	5,897	-----	160	1,549,381
New Mexico.....	69,645	48,211	-----	-----	-----	118,014
New York.....	2,193,344	2,089,863	111,543	-----	-----	4,466,072
North Carolina.....	348,922	287,078	-----	-----	-----	636,070
North Dakota.....	131,441	106,648	842	-----	-----	239,867
Ohio.....	1,627,546	864,210	10,198	-----	3,556	2,508,346
Oklahoma.....	394,046	219,174	3,924	1,283	-----	618,427
Oregon.....	205,341	109,223	4,284	-----	-----	319,942
Pennsylvania.....	2,055,382	1,067,586	<sup>6</sup> 19,027	-----	3,880	3,150,615
Rhode Island.....	117,522	118,973	416	-----	-----	242,784
South Carolina.....	3,188	62,700	47	-----	-----	<sup>6</sup> 68,605
South Dakota.....	157,603	102,660	443	927	-----	261,865
Tennessee.....	195,388	167,343	631	-----	-----	363,473
Texas.....	367,036	341,032	722	-----	-----	708,999
Utah.....	94,618	80,985	954	-----	-----	176,604
Vermont.....	90,404	44,440	-----	-----	338	135,191
Virginia.....	184,609	140,146	430	-----	-----	305,358
Washington.....	335,844	156,772	6,638	-----	-----	500,840
West Virginia.....	373,551	263,784	1,313	-----	1,703	642,752
Wisconsin.....	544,205	450,259	18,594	-----	2,245	1,016,872
Wyoming.....	52,748	29,299	788	-----	-----	84,496

<sup>1</sup> See headnote

<sup>2</sup> Figures prior to 1928 do not include votes cast for names not appearing on the electoral tickets specified in the table. In 1928 they represent the entire vote cast, including 48,770 votes (35 States) cast for the Workers electors and 67,951 scattering, defective, blank, and void ballots.

<sup>3</sup> Democrat-Populist.

<sup>4</sup> Socialist-Labor only. In 1924 practically all the Socialist vote is included in votes in next column for La Follette and Wheeler, official candidates of the Socialist Party as well as the Independent Progressive.

<sup>5</sup> Total for Georgia includes 35,871 anti-Smith votes, for South Carolina, 2,670.

<sup>6</sup> Maryland includes 906 Labor votes, Minnesota and Pennsylvania, 1,921 and 380 Industrial votes, respectively.

Sources: 1888-1920, reports of State officials on file in the Department of State, 1924 and 1928, data compiled by William Tyler Page, Clerk of the House of Representatives.

# No. 180.—ELECTORAL VOTE FOR PRESIDENT: BY PRINCIPAL POLITICAL PARTIES AND BY STATES, 1908 TO 1928

NOTE.—In 1924, the 13 electoral votes of Wisconsin were cast for La Follette and Wheeler, Independent Progressive candidates

State	1908		1912			1916		1920		1924		1928	
	Republican	Democratic	Republican	Democratic	Progressive	Republican	Democratic	Republican	Democratic	Republican	Democratic	Republican	Democratic
Total .....	321	162	8	435	88	254	277	404	127	382	136	444	87
Plurality .....	159	-----	-----	347	-----	-----	23	277	-----	246	-----	357	-----
Alabama .....	-----	11	-----	12	-----	-----	12	-----	12	-----	12	-----	12
Arizona .....	-----	-----	-----	3	-----	-----	3	3	-----	3	-----	3	-----
Arkansas .....	-----	9	-----	9	-----	-----	9	9	-----	9	-----	-----	9
California .....	10	-----	-----	2	11	-----	13	13	-----	13	-----	13	-----
Colorado .....	-----	5	-----	6	-----	-----	6	6	-----	6	-----	6	-----
Connecticut .....	7	-----	-----	7	-----	7	-----	7	-----	7	-----	7	-----
Delaware .....	3	-----	-----	3	-----	3	-----	3	-----	3	-----	3	-----
Florida .....	-----	5	-----	6	-----	-----	6	-----	6	-----	6	-----	6
Georgia .....	-----	13	-----	14	-----	-----	14	-----	14	-----	14	-----	14
Idaho .....	3	-----	-----	4	-----	-----	4	4	-----	4	-----	4	-----
Illinois .....	27	-----	-----	29	-----	29	-----	29	-----	29	-----	29	-----
Indiana .....	15	-----	-----	15	-----	15	-----	15	-----	15	-----	15	-----
Iowa .....	13	-----	-----	13	-----	13	-----	13	-----	13	-----	13	-----
Kansas .....	10	-----	-----	10	-----	-----	10	10	-----	10	-----	10	-----
Kentucky .....	-----	13	-----	13	-----	-----	13	-----	13	-----	13	-----	-----
Louisiana .....	-----	9	-----	10	-----	-----	10	-----	10	-----	10	-----	10
Maine .....	6	-----	-----	6	-----	6	-----	6	-----	6	-----	6	-----
Maryland .....	2	6	-----	8	-----	8	-----	8	-----	8	-----	8	-----
Massachusetts .....	16	-----	-----	18	-----	18	-----	18	-----	18	-----	-----	18
Michigan .....	14	-----	-----	-----	15	15	-----	15	-----	15	-----	15	-----
Minnesota .....	11	-----	-----	-----	12	12	-----	12	-----	12	-----	12	-----
Mississippi .....	-----	10	-----	10	-----	-----	10	-----	10	-----	10	-----	10
Missouri .....	18	-----	-----	18	-----	-----	18	18	-----	18	-----	18	-----
Montana .....	3	-----	-----	4	-----	-----	4	4	-----	4	-----	4	-----
Nebraska .....	-----	8	-----	8	-----	-----	8	8	-----	8	-----	8	-----
Nevada .....	-----	3	-----	3	-----	-----	3	3	-----	3	-----	3	-----
New Hampshire .....	4	-----	-----	4	-----	-----	4	4	-----	4	-----	4	-----
New Jersey .....	12	-----	-----	14	-----	14	-----	14	-----	14	-----	14	-----
New Mexico .....	-----	3	-----	3	-----	-----	3	3	-----	3	-----	3	-----
New York .....	39	-----	-----	45	-----	45	-----	45	-----	45	-----	45	-----
North Carolina .....	-----	12	-----	12	-----	-----	12	-----	12	-----	12	-----	-----
North Dakota .....	4	-----	-----	5	-----	-----	5	5	-----	5	-----	5	-----
Ohio .....	23	-----	-----	24	-----	24	-----	24	-----	24	-----	24	-----
Oklahoma .....	-----	7	-----	10	-----	-----	10	10	-----	10	-----	10	-----
Oregon .....	4	-----	-----	5	-----	5	-----	5	-----	5	-----	5	-----
Pennsylvania .....	34	-----	-----	-----	38	38	-----	38	-----	38	-----	38	-----
Rhode Island .....	4	-----	-----	5	-----	5	-----	5	-----	5	-----	-----	5
South Carolina .....	-----	9	-----	9	-----	-----	9	-----	9	-----	9	-----	9
South Dakota .....	4	-----	-----	-----	5	5	-----	5	-----	5	-----	5	-----
Tennessee .....	-----	12	-----	12	-----	-----	12	12	-----	12	-----	12	-----
Texas .....	-----	18	-----	20	-----	-----	20	-----	20	-----	20	-----	-----
Utah .....	3	-----	4	-----	-----	-----	4	4	-----	4	-----	4	-----
Vermont .....	4	-----	4	-----	-----	4	-----	4	-----	4	-----	4	-----
Virginia .....	-----	12	-----	12	-----	-----	12	-----	12	-----	2	12	-----
Washington .....	5	-----	-----	-----	7	-----	7	7	-----	7	-----	7	-----
West Virginia .....	7	-----	-----	8	-----	7	-----	8	-----	8	-----	8	-----
Wisconsin .....	13	-----	-----	13	-----	13	-----	13	-----	(1) 3	(1)	13	-----
Wyoming .....	3	-----	-----	3	-----	-----	3	3	-----	-----	-----	3	-----

<sup>1</sup>See headnote

Sources 1908 to 1920, Journal of the Senate, Washington, D. C.; 1924 and 1928, data compiled by William Tyler Page, Clerk of the House of Representatives.

## No. 181.—APPORTIONMENT OF CONGRESSIONAL REPRESENTATION

NOTE.—The ratio given at the head of each column indicates the number of inhabitants per Member of the House of Representatives fixed by Congress as the basis of determining the number of Representatives per State. No apportionment under Census of 1920

State	Ratios under Constitution and censuses													
	Constitution	1790	1800	1810	1820	1830	1840	1850 (1)	1860 (2)	1870 (3)	1880	1890	1900	1910
	30,000	33,000	33,000	35,000	40,000	47,700	70,680	93,423	127,381	131,425	151,911	173,901	194,182	211,877
Representation														
Total	65	106	142	186	213	242	232	237	243	293	332	357	391	435
Alabama				41	3	5	7	7	6	8	8	9	9	10
Arizona														1
Arkansas						41	1	2	3	4	5	6	7	7
California							42	2	3	4	6	7	8	11
Colorado										41	1	2	3	4
Connecticut	5	7	7	7	6	6	4	4	4	4	4	4	5	5
Delaware	1	1	1	2	1	1	1	1	1	1	1	1	1	1
Florida							41	1	1	2	2	2	3	4
Georgia	3	2	4	6	7	9	8	8	7	9	10	11	11	12
Idaho											41	1	1	2
Illinois				41	1	3	7	9	14	19	20	22	25	27
Indiana				41	3	7	10	11	11	13	13	13	13	13
Iowa							42	2	6	9	11	11	11	11
Kansas								1	3	7	8	8	8	8
Kentucky		2	6	10	12	13	10	10	9	10	11	11	11	11
Louisiana				41	3	3	4	4	5	6	6	6	7	8
Maine				47	7	8	7	6	5	5	4	4	4	4
Maryland	6	8	9	9	9	8	6	6	5	6	6	6	6	6
Massachusetts	8	14	17	13	13	12	10	11	10	11	12	13	14	16
Michigan						41	3	4	6	9	11	12	12	13
Minnesota								42	2	3	5	7	9	10
Mississippi				41	1	2	4	5	5	6	7	7	8	8
Missouri					1	2	5	7	9	13	14	15	16	16
Montana											41	1	1	2
Nebraska									41	1	3	6	6	6
Nevada									41	1	1	1	1	1
New Hampshire	3	4	5	6	6	5	4	3	3	3	2	2	2	2
New Jersey	4	5	6	6	6	6	5	5	5	7	7	8	10	12
New Mexico														1
New York	6	10	17	27	34	40	34	33	31	33	34	34	37	43
North Carolina	5	10	12	13	13	13	9	8	7	8	9	9	10	10
North Dakota											41	1	2	3
Ohio			41	6	14	19	21	21	19	20	21	21	21	22
Oklahoma													45	8
Oregon								41	1	1	1	2	2	3
Pennsylvania	8	13	18	23	26	28	24	25	24	27	28	30	32	36
Rhode Island	1	2	2	2	2	2	2	2	2	2	2	2	2	3
South Carolina	5	6	8	9	9	9	7	6	4	5	7	7	7	7
South Dakota											42	2	2	3
Tennessee		41	3	6	9	13	11	10	8	10	10	10	10	10
Texas							42	2	4	6	11	13	16	18
Utah												41	1	2
Vermont		2	4	6	5	5	4	3	3	3	2	2	2	2
Virginia	10	19	22	23	22	21	15	13	11	9	10	10	10	10
Washington											41	2	3	5
West Virginia										3	4	4	5	6
Wisconsin							42	3	6	8	9	10	11	11
Wyoming											41	1	1	1

<sup>1</sup> Membership increased from 233 to 234 by act of July 30, 1852. (10 Stat. L., 25.)

<sup>2</sup> Membership increased from 233 to 241 by act of Mar. 4, 1862. (12 Stat. L., 353.)

<sup>3</sup> Membership originally fixed at 233 but increased by act of May 30, 1872, to 292. (17 Stat. L., 192.)

<sup>4</sup> Assigned after apportionment.

<sup>5</sup> Included in apportionment act in anticipation of its becoming a State

<sup>6</sup> Included in the 20 Members originally assigned to Massachusetts, but credited to Maine, after its admission as a State, Mar. 15, 1820. (3 Stat. L., 555.)

## 9. NATIONAL GOVERNMENT FINANCES

*General note as to bases used in compiling statistics of receipts and expenditures of the United States Government*—Four different bases are used in compiling both the receipts and expenditures of the Government. These bases, in the case of receipts, are the daily Treasury statements (unrevised and revised), warrants issued, and collections reported. The expenditures of the Government are published on the first three of these bases and also on the basis of checks issued. Figures in the daily Treasury statements (unrevised) which are on a current cash basis are compiled from the latest daily reports from the Treasury offices or public depositories. Owing to the distance of some of these offices and depositories from the Treasury, reports from them are somewhat delayed in reaching the Treasury, and consequently it is necessary to issue the unrevised Treasury statements before they are received. In order to show the actual receipts and expenditures for any month or year, it is necessary to take into account these delayed reports. The figures for actual transactions during a month or year which are calculated by the use of these reports are said to be on a basis of daily Treasury statements (revised). The unrevised figures are the basis of the Budget estimates submitted to Congress by the President.

It is provided by law that warrants shall be issued by the Secretary of the Treasury in acknowledgment of money received, and that warrants must be drawn by the Secretary of the Treasury for all disbursements of money. These warrants for expenditures do not represent actual payments but are merely advances of credit to disbursing officers, who then issue checks in payment of Government obligations. Expenditures on the basis of warrants issued include unexpended balances to the credit of disbursing officers at the end of the year but do not include expenditures made during the year from unexpended balances of the preceding year. Both receipts and expenditures on a warrant basis omit transactions in certain accounts which credit receipts directly against expenditures shown on a warrant basis. Under normal conditions the unexpended balances of disbursing offices vary comparatively little from year to year, and other adjustments are small, but during a war period or a period of post-war adjustments differences in these items may be large and may cause marked discrepancies between figures shown on a cash as compared with a warrant basis. For example, the liquidation of the War Finance Corporation has caused some very large differences between figures of Government expenditures on these bases during the past decade.

Expenditures on the basis of checks issued (Table 187) represent most accurately the actual expenditures during any given year. They differ from expenditures shown by daily Treasury statements (revised), because they include checks outstanding at the end of the year and exclude unpaid checks at the beginning of the year.

All figures for receipts and expenditures include the figures of postal surpluses or deficiencies and consequently leave out the gross figures of postal revenues and expenditures.

### No. 182.—ORDINARY RECEIPTS AND EXPENDITURES CHARGEABLE AGAINST ORDINARY RECEIPTS. SUMMARY

NOTE.—Figures are on the "current cash" basis shown by daily Treasury statements, unrevised

[All figures in millions and tenths of millions of dollars]

Year ended June 30—	Ordinary receipts					Expenditures chargeable against ordinary receipts			Surplus (+) or deficit (—)
	Total	Customs	Income and profits tax	Miscel- laneous internal revenue	Miscel- laneous revenue	Total	Ordinary	Public debt retire- ments	
1916.....	782.5	213.2	124.9	387.8	56.6	734.1	734.1	-----	+48.5
1917.....	1,124.3	226.0	359.7	449.7	89.0	1,977.7	1,977.7	-----	—853.4
1918.....	3,664.6	180.0	2,314.0	872.0	298.6	12,697.8	12,696.7	1.1	—9,033.3
1919.....	5,152.3	184.5	3,018.8	1,296.5	652.5	18,522.9	18,514.9	8.0	—13,370.6
1920.....	6,694.6	322.9	3,944.9	1,460.1	966.6	6,482.1	6,403.3	78.7	+212.5
1921.....	5,624.9	308.6	3,206.0	1,390.4	719.9	5,538.2	5,115.9	422.3	+56.7
1922.....	4,109.1	356.4	2,068.1	1,145.1	539.4	3,795.3	3,372.6	422.7	+313.8
1923.....	4,007.1	561.9	1,678.6	945.9	820.7	3,697.5	3,294.6	402.9	+309.7
1924.....	4,012.0	545.6	1,842.1	953.0	671.3	3,506.7	3,048.7	458.0	+505.4
1925.....	3,780.1	547.6	1,760.5	828.6	643.4	3,529.6	3,063.1	466.5	+260.5
1926.....	3,962.8	579.4	1,982.0	855.6	545.7	3,585.0	3,097.6	487.4	+377.8
1927.....	4,129.4	605.5	2,225.0	644.4	654.5	3,493.6	2,974.0	519.6	+635.8
1928.....	4,042.3	569.0	2,174.0	621.0	678.4	3,643.5	3,103.3	540.3	+398.8
1929.....	4,033.3	602.3	2,330.7	607.3	498.0	3,848.5	3,298.9	549.6	+184.8

Source: Annual Report of the Secretary of the Treasury.



# 170 RECEIPTS AND EXPENDITURES—U. S. GOVERNMENT

## No. 183.—RECEIPTS AND EXPENDITURES OF THE GOVERNMENT

NOTE.—In thousands of dollars. Figures are on the basis of warrants issued (net); see general note, p 169

Yearly average or year ended June 30—	Ordinary receipts	Ordinary expenditures	Public-debt retirements chargeable against ordinary receipts	Surplus (+) or deficit (—), ordinary	Public-debt receipts, proceeds of bonds, and other securities <sup>1</sup>	Public-debt retirements chargeable against public-debt receipts and surplus revenues <sup>1</sup>	Postal revenues, excluding surplus postal receipts covered into the Treasury <sup>2</sup>	Postal expenditures, excluding postal deficiencies <sup>3</sup>
1791–1800.....	6,765	6,835	-----	-70	2,726	2,394	138	127
1801–1810.....	13,055	9,086	-----	+3,969	<sup>5</sup> 296	4,261	403	390
1811–1820.....	21,032	23,942	-----	-2,910	11,095	8,325	862	823
1821–1830.....	21,923	16,161	-----	+5,762	<sup>3</sup> 1,500	6,780	1,400	1,415
1831–1840.....	30,460	24,494	-----	+5,966	<sup>3</sup> 2,516	<sup>3</sup> 5,932	3,347	3,272
1841–1850.....	27,117	32,392	-----	-5,275	<sup>3</sup> 12,559	6,762	4,391	4,359
1851–1860.....	60,237	60,162	-----	+75	7,306	7,698	6,798	6,947
1861–1865.....	160,907	683,785	-----	-522,878	776,719	254,381	10,961	10,357
1866–1870.....	447,300	377,642	-----	+69,658	330,503	377,607	16,422	17,443
1871–1875.....	336,830	287,459	-----	+49,370	89,352	148,818	23,642	23,661
1876–1880.....	288,124	255,598	-----	+32,526	227,036	238,662	29,762	29,253
1880.....	333,527	267,643	-----	+65,884	73,066	230,435	33,315	33,466
1881.....	360,782	260,713	-----	+100,069	678	86,111	36,785	35,712
1882.....	403,525	257,981	-----	+145,544	225	166,505	41,876	40,622
1883.....	398,288	265,408	-----	+132,879	304,373	438,431	45,509	43,253
1884.....	348,520	244,126	-----	+104,394	1,405	101,266	43,326	47,233
1885.....	323,691	260,227	-----	+63,464	58	46,043	42,561	45,509
1886.....	336,440	242,483	-----	+93,957	40	44,584	43,948	42,823
1887.....	371,403	267,932	-----	+103,471	41	127,959	48,838	46,481
1888.....	379,266	267,925	-----	+111,341	49	74,862	52,695	53,412
1889.....	387,050	299,289	-----	+87,761	24	121,289	56,176	55,476
1890.....	403,081	318,041	-----	+85,040	22	104,664	60,882	59,408
1891.....	392,612	365,774	-----	+26,839	14	101,003	65,932	68,841
1892.....	354,938	345,023	-----	+9,914	15	24,348	70,930	72,990
1893.....	385,820	333,478	-----	+52,342	23	710	75,897	75,667
1894.....	306,355	367,525	-----	-61,170	50,014	256	75,080	76,808
1895.....	324,729	356,195	-----	-31,466	81,165	2,495	76,933	76,197
1896.....	338,142	352,179	-----	-14,037	131,169	7,294	82,499	81,643
1897.....	347,722	365,774	-----	-18,052	3	11,379	82,665	82,948
1898.....	405,321	443,369	-----	-38,047	6	29,912	89,013	87,563
1899.....	515,961	605,072	-----	-89,112	199,201	14,622	95,021	93,440
1900.....	567,241	520,861	-----	+46,380	118	22,790	102,355	100,534
1901.....	587,685	524,617	-----	+63,068	4	36,113	111,631	110,658
1902.....	562,478	485,234	-----	+77,244	2	56,224	121,848	122,407
1903.....	561,881	517,006	-----	+44,875	2	16,609	134,224	136,043
1904.....	541,087	583,660	-----	-42,573	3	18,623	143,583	145,893
1905.....	544,275	567,279	-----	-23,004	3	605	152,827	152,356
1906.....	594,984	570,202	-----	+24,782	2	245	167,933	165,802
1907.....	665,860	579,129	-----	+86,732	30,005	30,373	183,586	182,648
1908.....	601,862	659,196	-----	-57,334	40,068	34,357	191,479	195,501
1909.....	604,320	693,744	-----	-89,423	30,000	15,435	203,562	201,541
1910.....	675,512	693,617	-----	-18,105	-----	761	224,129	221,515
1911.....	701,833	691,202	-----	+10,631	17,642	246	237,880	237,661
1912.....	692,609	689,881	-----	+2,728	32,818	121	246,744	246,961
1913.....	724,111	724,512	-----	-401	1,930	103	266,620	261,082
1914.....	734,673	735,081	-----	-408	3,119	109	284,135	283,558
1915.....	697,911	760,587	-----	-62,676	934	48	283,748	291,945
1916.....	782,535	741,997	-----	+40,538	1,804	36	312,058	300,723
1917.....	1,124,325	2,036,042	-----	-961,717	2,390,725	636,981	324,526	319,890
1918.....	4,180,425	13,791,908	-----	-9,611,483	16,964,610	7,685,268	340,345	322,623
1919.....	4,654,381	18,952,141	-----	-14,297,760	29,053,332	15,813,848	346,333	362,161
1920.....	6,704,414	6,141,745	-----	+562,669	15,835,274	17,013,020	431,937	418,607
1921.....	5,584,517	4,468,713	422,562	<sup>4</sup> +693,242	8,824,739	8,721,752	463,491	489,506
1922.....	4,103,597	3,195,685	422,353	<sup>4</sup> +485,559	5,910,931	6,500,585	484,772	481,816
1923.....	3,847,046	3,244,717	402,958	<sup>4</sup> +199,371	7,259,181	7,486,748	532,828	524,366
1924.....	3,884,041	2,946,401	467,894	<sup>4</sup> +479,746	2,178,676	2,814,718	572,949	574,774
1925.....	3,007,644	2,464,169	456,538	<sup>4</sup> +676,937	3,047,016	3,351,799	599,591	616,120
1926.....	3,908,458	3,030,387	487,376	<sup>4</sup> +390,694	2,986,134	3,339,670	659,820	640,286
1927.....	4,023,722	2,897,135	519,564	<sup>4</sup> +607,022	5,157,255	5,570,467	683,122	687,365
1928.....	3,863,929	2,897,102	540,246	<sup>4</sup> +426,540	6,830,219	7,193,291	693,634	693,675

<sup>1</sup> Exclusive of the deposits made by banks to retire national bank and Federal reserve notes and of payments made from this fund to retire such notes; these are in the nature of fiduciary transactions. Both columns include redemption-exchange transactions.

<sup>2</sup> Based on reports of the Post Office Department. Expenditures include adjusted losses, etc., postal balances, and expenditures from postal balances, they exclude departmental expenditures in Washington, D. C., to the close of the fiscal year 1922, and amounts transferred to the civil-service retirement and disability fund, fiscal years, 1921 to 1926. In 1927 and 1928 the 3½ per cent salary deductions are included.

<sup>3</sup> Averages are for entire 10-year period though there were no receipts or retirements certain years

<sup>4</sup> After taking account of public-debt retirement expenditures chargeable against ordinary receipts

Source Annual Report of the Secretary of the Treasury.

# No. 184.—ORDINARY RECEIPTS OF THE GOVERNMENT: BY MAJOR SOURCES

NOTE—In thousands of dollars. Figures are on basis of warrants issued (net); see general note, p. 169

Yearly average or year ended June 30—	Total ordinary receipts	Customs	Internal revenue		Sales of public lands	Surplus postal receipts	Miscella- neous receipts
			Income and profits tax	Miscella- neous			
1791-1800.....	6,765	5,940	-----	444	1 10	1 36	334
1801-1810.....	13,055	12,046	-----	201	456	1 22	329
1811-1820.....	21,032	16,383	-----	1,544	1,623	50	1,420
1821-1830.....	21,923	19,852	-----	31	1,388	( <sup>2</sup> )	649
1831-1840.....	30,460	20,470	-----	5	7,452	( <sup>2</sup> )	2,533
1841-1850.....	27,117	24,366	-----	1 1	1,980	-----	708
1851-1860.....	60,237	54,498	-----	28,006	4,582	-----	1,156
1861-1865.....	160,907	68,988	5,603	1 27,283	555	-----	19,994
1866-1870.....	447,300	178,903	7,760	171,315	2,109	-----	44,368
1871-1875.....	336,830	186,200	( <sup>2</sup> )	112,217	2,223	-----	28,429
1876-1880.....	288,124	146,594	-----	116,697	1,025	-----	23,808
1880.....	333,527	186,522	-----	124,009	1,017	-----	21,979
1881.....	360,782	198,160	3	135,261	2,202	-----	25,156
1882.....	408,525	220,411	-----	140,498	4,753	-----	31,864
1883.....	398,288	214,706	-----	144,720	7,956	-----	30,905
1884.....	348,520	195,067	56	121,530	9,811	-----	22,056
1885.....	323,691	181,472	-----	112,499	5,706	-----	24,014
1886.....	336,440	192,905	-----	116,806	5,631	-----	21,098
1887.....	371,403	217,287	-----	118,823	9,254	-----	26,039
1888.....	379,266	219,091	-----	124,297	11,202	-----	24,676
1889.....	387,050	223,833	-----	130,882	8,039	-----	24,297
1890.....	403,081	229,669	-----	142,607	6,358	-----	24,447
1891.....	392,612	219,522	-----	145,687	4,030	-----	23,374
1892.....	354,938	177,453	-----	135,971	3,262	-----	20,252
1893.....	385,820	203,855	-----	161,028	3,182	-----	18,255
1894.....	306,355	131,819	-----	147,111	1,674	-----	25,752
1895.....	324,729	152,159	77	143,345	1,103	-----	28,046
1896.....	338,142	160,022	-----	146,763	1,006	-----	30,352
1897.....	347,722	176,554	-----	140,689	865	-----	23,614
1898.....	405,321	148,675	-----	170,901	1,248	-----	83,603
1899.....	515,961	206,128	-----	273,437	1,678	-----	34,717
1900.....	567,241	233,165	-----	295,328	2,337	-----	35,911
1901.....	587,685	238,585	-----	307,181	2,965	-----	38,954
1902.....	562,478	254,445	-----	271,880	4,144	-----	32,009
1903.....	561,881	284,480	-----	230,810	8,926	-----	37,665
1904.....	541,087	261,275	-----	232,904	7,453	-----	39,455
1905.....	544,275	261,799	-----	234,096	4,859	-----	43,521
1906.....	594,984	300,252	-----	249,150	4,880	-----	40,703
1907.....	665,860	332,233	-----	269,667	7,879	-----	56,081
1908.....	601,862	286,113	-----	251,711	9,732	-----	54,306
1909.....	604,320	300,712	-----	246,213	7,701	-----	49,695
1910.....	675,512	333,683	20,952	268,982	6,356	-----	45,539
1911.....	701,833	314,497	33,517	289,012	5,732	-----	59,075
1912.....	692,609	311,322	28,583	293,029	5,393	-----	54,283
1913.....	724,111	318,591	35,006	309,411	2,910	-----	57,893
1914.....	734,673	292,320	71,381	308,660	2,672	3,800	55,940
1915.....	697,911	209,787	80,202	335,468	2,167	3,500	66,787
1916.....	782,535	213,186	124,937	387,765	1,888	-----	54,759
1917.....	1,124,325	225,962	359,681	449,685	1,893	5,200	81,903
1918.....	4,180,425	182,759	2,839,000	857,044	1,969	4 48,631	4 251,023
1919.....	4,654,381	183,429	2,600,763	1,239,468	1,405	4 89,906	4 539,411
1920.....	6,704,414	323,537	3,956,936	1,442,213	1,910	4 5,213	4 974,605
1921.....	5,584,517	308,025	3,228,138	1,351,836	1,530	-----	694,988
1922.....	4,103,597	357,545	2,086,918	1,121,240	895	81	536,917
1923.....	3,847,046	562,189	1,691,090	935,700	657	-----	657,411
1924.....	3,884,041	545,012	1,841,759	952,531	522	-----	544,217
1925.....	3,607,644	548,522	1,761,659	827,787	624	-----	469,053
1926.....	3,908,458	579,717	1,974,104	862,668	754	-----	491,215
1927.....	4,023,722	605,672	2,219,952	848,732	621	-----	548,732
1928.....	3,863,929	568,157	2,174,573	617,620	385	-----	503,194

<sup>1</sup> Averages are for entire 10-year period though there were no receipts under these items certain years.

<sup>2</sup> Less than \$500

<sup>3</sup> Average for 1863 to 1865

<sup>4</sup> Estimated increased postage under act of Oct 3, 1917, included in "Surplus postal receipts."

Source: Annual Report of the Secretary of the Treasury.

# No. 185.—ORDINARY EXPENDITURES OF THE GOVERNMENT: BY MAJOR CLASSES

NOTE—In thousands of dollars Figures are on basis of warrants issued (net), see general note, p 169

Yearly average or year ended June 30—	Total ordinary expenditures	Civil and miscellaneous <sup>1</sup>	War Department <sup>1</sup>	Navy Department <sup>1</sup>	Indians	Pensions <sup>2</sup>	U. S. Veterans' Bureau <sup>3</sup>	Postal deficiencies <sup>4</sup>	Interest on the public debt
1791-1800...	6,835	980	1,732	4,882	81	97			3,111
1801-1810...	9,086	1,870	1,632	1,636	164	78			3,703
1811-1820...	23,942	2,589	10,742	4,675	317	741			4,877
1821-1830...	16,161	3,144	3,918	3,295	599	1,247			3,956
1831-1840...	24,494	5,616	8,321	5,041	2,612	2,572			4,331
1841-1850...	32,392	7,452	12,815	7,237	1,384	1,700		\$ 185	1,615
1851-1860...	60,162	21,233	15,784	11,996	3,266	1,531		3,574	2,776
1861-1865...	683,785	25,894	247,752	65,329	3,203	4,852		2,146	34,600
1866-1870...	377,642	54,524	127,815	28,382	4,488	23,428		\$ 5,642	135,440
1871-1875...	287,459	69,152	40,188	23,328	7,504	30,166		5,544	111,580
1876-1880...	287,598	56,819	37,170	15,990	5,405	35,051		4,972	100,191
1881	267,643	54,438	38,117	13,587	5,945	56,777		3,071	95,758
1882	260,713	61,582	40,466	15,687	6,514	50,059		3,896	82,509
1883	257,981	57,220	43,570	15,032	9,737	61,345			71,077
1884	265,408	68,604	48,911	15,283	7,363	66,013		75	59,160
1885	244,126	70,920	39,430	17,293	6,476	55,429			54,578
1886	260,227	82,953	42,671	16,021	6,562	56,102		4,542	51,386
1887	242,483	65,973	34,324	13,908	6,099	63,405		8,194	50,580
1888	267,932	78,764	38,561	15,141	6,195	75,029		6,501	47,742
1889	267,925	78,167	38,522	16,926	6,249	80,289		3,056	44,715
1890	290,289	94,088	44,435	21,379	6,892	87,625		3,869	41,001
1891	318,041	94,832	44,583	22,006	6,708	106,937		6,875	36,099
1892	365,774	115,708	48,720	26,114	8,527	124,416		4,742	37,547
1893	485,023	95,790	48,895	29,174	11,151	134,538		4,051	23,378
1894	583,478	97,736	49,642	30,138	13,345	159,368		5,947	27,264
1895	587,525	97,694	54,568	31,701	10,293	141,177		8,250	27,841
1896	585,195	82,263	51,805	28,798	9,940	141,395		11,017	30,978
1897	552,170	77,916	50,831	27,148	12,166	139,434		9,300	35,385
1898	585,774	79,252	48,950	34,562	13,017	141,053		11,149	37,791
1899	443,369	86,016	91,992	58,824	10,995	147,452		10,504	37,585
1900	605,072	110,980	229,841	63,942	12,806	139,395		8,212	39,897
1901	520,861	131,689	134,775	55,953	10,175	140,877		7,231	40,160
1902	524,617	131,977	144,616	60,507	10,896	139,324		4,955	32,343
1903	485,234	125,111	112,272	67,803	10,050	138,489		2,402	29,108
1904	517,006	133,073	118,630	82,618	12,935	138,426		2,769	28,556
1905	583,660	131,357	165,200	102,956	10,438	142,559		6,503	24,646
1906	567,279	127,968	126,094	117,550	14,236	141,774		15,065	24,591
1907	570,202	131,659	137,326	110,474	12,747	141,035		12,673	24,309
1908	579,129	145,642	149,775	97,128	15,184	139,310		7,629	24,481
1909	569,196	162,532	175,840	118,087	14,680	133,892		13,538	21,426
1910	698,744	167,001	192,487	115,546	15,695	161,710		19,501	21,804
1911	693,617	171,581	189,823	123,174	18,504	160,696		8,496	21,343
1912	691,202	173,839	197,199	119,938	20,934	157,981			21,311
1913	689,881	172,257	184,123	135,592	20,135	153,590		1,588	22,616
1914	724,512	169,802	202,129	133,263	20,306	175,085		1,027	22,899
1915	735,081	170,530	208,350	139,682	20,215	173,440			22,864
1916	760,587	200,533	202,160	141,836	22,130	164,388		6,637	22,903
1917	741,997	199,555	182,139	155,029	17,570	159,302		5,500	22,900
1918	2,086,042	1,150,351	459,540	257,166	30,598	160,318	3,326		24,742
1919	13,791,908	6,237,492	5,705,136	1,368,643	30,888	181,138	68,863	2,221	197,527
1920	18,952,141	6,701,180	9,265,325	2,009,272	34,593	221,615	103,945	344	615,867
1921	6,141,745	2,989,703	1,100,866	629,893	40,517	213,314	107,585	\$ 35,813	1,024,024
1922	4,468,713	1,452,895	580,795	947,871	41,471	200,611	356,801	\$ 181,502	996,677
1923	3,195,685	660,823	402,058	458,795	38,500	262,577	329,092	\$ 64,353	989,485
1924	3,247,717	806,833	335,723	322,523	45,143	264,178	302,859	32,527	1,055,038
1925	2,946,411	650,336	348,606	324,130	46,754	238,262	396,934	12,639	938,741
1926	2,464,169	134,276	367,957	326,365	38,755	218,321	483,261	29,217	882,015
1927	3,030,387	749,358	358,329	311,612	48,442	207,190	484,481	39,506	831,469
1928	2,897,135	637,880	361,987	322,621	36,792	230,556	492,293	27,263	787,794
1929	2,897,102	653,873	400,345	337,608	36,991	229,401	474,953	32,080	731,850

<sup>1</sup> Up to 1920, inclusive, civil expenditures under War and Navy Departments at Washington are included under the column Civil and Miscellaneous; thereafter under War and Navy Departments, respectively. Civil and miscellaneous expenditures, beginning 1917, have been revised to exclude expenditures by Bureau of War Risk Insurance and for vocational rehabilitation. War Department expenditures include those for rivers and harbors and the Panama Canal.

<sup>2</sup> Includes only Army and Navy pensions for service prior to World War and fees of examining surgeons. Does not include salaries under Bureau of Pensions or payments to veterans of the World War, which are made by Veterans' Bureau (see next column).

<sup>3</sup> Prior to 1922 data represent expenditures by Bureau of War Risk Insurance and for vocational rehabilitation. They are exclusive of operations in Government life insurance trust funds and special funds.

<sup>4</sup> Exclusive of amounts transferred to the civil service retirement and disability fund in 1921 to 1926.

<sup>5</sup> Averages are for entire 10-year period, though there were no expenditures in certain years.

<sup>6</sup> Additional compensation, Postal Service (resolution of Nov. 8, 1919), included in "Postal deficiencies."

<sup>7</sup> The liquidation of the War Finance Corporation and the repayment of loans by the railroads very much affected the total civil and miscellaneous expenditures in 1925.

Source: Annual Report of the Secretary of the Treasury.

No. 186.—RECEIPTS OF THE GOVERNMENT: BY SOURCES, YEARS ENDED  
JUNE 30

NOTE.—Figures are on the basis of warrants issued, see general note, p. 169

[All figures in thousands of dollars]

	1927	1928		1927	1928
ORDINARY RECEIPTS			ORDINARY RECEIPTS—contd.		
Customs.....	605, 872	568, 157	Miscellaneous—Continued.		
Duties.....	603, 427	566, 215	Federal reserve bank fran-		
Tonnage tax.....	2, 246	1, 942	chise tax and net earnings		
Internal revenue.....	2, 868, 685	2, 792, 193	from Federal intermediate	1, 232	618
Income tax.....	2, 219, 952	2, 174, 573	credit banks.....		
Miscellaneous taxes.....	648, 231	616, 777	Profits on coinage, bullion	9, 130	6, 236
Collections under enforce-			deposits, etc.....		
ment of national prohibi-			Revenue-producing enter-		
tion act.....	1 502	1 843	prises—		
Miscellaneous.....	549, 371	503, 579	United States Housing		
Interest, premiums, etc.—			Corporation.....	479	399
Interest on bonds of foreign			Funds deposited for con-		
governments under fund-			struction loans under		
ing agreements.....	139, 826	139, 944	section 11, merchant	95	1 3, 303
Interest on unfunded obli-			marine act, 1920.....	260	253
gations of foreign gov-	20, 563	21, 141	Center Market, Washing-	150	123
ernments.....			ton, D. C.....	25, 154	27, 901
Interest on miscellaneous			Earnings from radioservice	230	299
obligations.....	1, 092	1, 146	Tolls, profits, etc., Panama		
Interest on overpayments			Canal.....	1, 353	1, 277
under section 209 trans-			U. S. telegraph lines.....	1, 032	1, 212
portation act, 1920.....	5	-----	Laundry and dry-cleaning		
Interest on farm-loan			operations (war).....	310	298
bonds.....	670	-----	Sale of electric current	78	108
Interest on public deposits	4, 708	4, 851	(Muscle Shoals, Ala.).....		
Interest on advance pay-			Profits from sale of ships'		
ments to contractors.....	45	138	stores, Navy.....		
Interest on bonds of Bos-			Other.....		
ton, Cape Cod & New			Rent of public buildings and	1, 170	1, 091
York Canal Co., with-			grounds.....		
held from purchase price			Fees, fines, penalties, etc.—		
of Cape Cod Canal.....	-----	74	Alaska fund.....	238	154
Dividends, Panama R. R.	350	700	Fees on letters patent.....	3, 463	3, 683
Dividends, Hoboken &			Copyright fees.....	184	192
Manufacturers R. R. Co.			Fees and commissions		
Gain by exchange.....	1, 707	982	(Land Office).....	493	464
Sales of property—		7	Consular and passport		
Government property (un-			fees.....	8, 786	8, 291
serviceable).....	3, 337	2, 819	Tax on circulation of na-		
Office material, etc. (Gen-			tional banks.....	3, 253	3, 234
eral Supply Committee).....	37	38	Customs Service.....	1, 590	2, 563
Properties, United States			Collections under enforce-		
Housing Corporation.....	1, 670	1, 242	ment of national probi-		
Lands, etc., on account of			hibition act (Treasury	4, 298	3, 962
military post construc-			and judicial).....		
tion fund.....	3, 837	2, 897	Commissions on telephone		
War supplies.....	8, 648	2, 780	pay stations, Federal		
Seal and fox skins.....	281	331	buildings and rental		
Public documents and			post offices.....	17	56
charts.....	299	391	Navy fines and forfeitures.	846	880
Card indexes, Library of			Naval hospital fund.....	1, 007	499
Congress.....	191	195	Naturalization fees.....	945	679
Miscellaneous Govern-			Immigration Service.....	4 3, 873	4 3, 969
ment property.....	158	211	Judicial.....	3, 045	3, 932
Public domain receipts—			Recovery of value of oil in		
Sale of public lands.....	621	385	case of U. S. against the		
Receipts under mineral			Pan American Petro-		
leasing acts.....	6, 670	4, 674	leum Co., and the Pan		
Forest reserve fund.....	5, 228	5, 564	American Petroleum &		
National park revenues.....	670	744	Transport Co.....	-----	13, 013
Royalties on oil, gas, etc.....	11, 253	4, 961	Forfeitures by contractors.	112	34
Other.....	852	680	Licenses under Federal		
			water power act.....	287	307
			Taxes, licenses, fines, etc.,		
			Canal Zone.....	222	233
			Other.....	1, 349	867

<sup>1</sup> Additional collections under national prohibition act included under miscellaneous receipts.

<sup>2</sup> Exclusive of \$14,268,000 transferred from the checking account of the U. S. Shipping Board to the warrant account on the books of the Secretary of the Treasury and covered into the Treasury by miscellaneous receipt covering warrant. As this was merely an adjustment between accounts of cash transactions occurring in prior years, this item has not been included in either receipts or expenditures.

<sup>3</sup> For additional collections from this source see under "Internal Revenue"

<sup>4</sup> Includes \$3,272,000 head tax in 1927 and \$3,263,000 in 1928.

No. 186.—RECEIPTS OF THE GOVERNMENT: BY SOURCES, YEARS ENDED  
JUNE 30—Continued

[All figures in thousands of dollars]

	1927	1928		1927	1928
<b>ORDINARY RECEIPTS—contd</b>			<b>ORDINARY RECEIPTS—contd.</b>		
<b>Miscellaneous—Continued.</b>			<b>Miscellaneous—Continued.</b>		
<i>Gifts and contributions—</i>			<i>Assessments and reimbursements—Continued.</i>		
Library of Congress gift fund <sup>5</sup> .....	37	123	Army costs due United States from Germany, Paris agreement of Jan. 14, 1925.....	8,920	13,638
Return of increase in salary by member of Sixty-ninth Congress.....	2	-----	Work done for individuals, corporations, et al.....	133	123
For river and harbor improvements.....	1,248	174	Payment for quarters, subsistence, and laundry service, Veterans' Bureau.....	468	79
Advance of funds.....	2,944	2,897	Fumigation and disinfection of vessels, Public Health Service.....	642	537
For Forest Service cooperative work.....	1,503	1,551	Collections under grain and cotton standards act.....	162	185
For roads, bridges, and related works, Alaska.....	92	213	General railroad contingent fund.....	852	1,180
Donations to United States and moneys received from persons unknown.....	29	1	Reimbursement for maintenance of District of Columbia inmates in Federal penal and correctional institutions.....	139	161
Donations, National Park Service.....	-----	51	Maintenance charges, irrigation systems, Indian Service.....	-----	864
Canadian Government's share, cost of protective works and measures, Lake of the Woods and Rainy River, Minn.....	275	-----	Reimbursement of appropriations made for Indian tribes.....	3	345
Pan American Union quotas.....	221	139	International service of ice observation and control.....	193	148
<b>Repayments of investments—</b>			Reimbursement for Government property lost.....	54	51
Principal of unfunded loans made to foreign governments.....	10,002	11,607	Damages to Government property.....	20	48
Principal of bonds of foreign governments under funding agreements.....	35,691	36,144	Other.....	976	779
Principal of sale of surplus war supplies to foreign governments.....	7	-----	<b>Other miscellaneous—</b>		
Liquidation of capital stock, Federal land banks.....	338	286	Clothing and small stores fund, Navy.....	5,320	( <sup>6</sup> 7)
Sale of farm loan bonds.....	60,495	-----	Bribes to United States officers.....	71	2
Return of advances made to reclamation fund.....	1,000	1,000	Other.....	301	260
Principal of loans by U S Housing Corporation.....	844	( <sup>6</sup> )	<b>Trust funds—</b>		
Capital stock of Hoboken & Mrs R. R. Co owned by United States.....	-----	425	Government life insurance fund.....	65,846	81,810
Funds deposited for final liquidation of U. S Grain Corporation.....	-----	115	Contributions to Library of Congress trust fund, investment account.....	15	128
Other.....	-----	111	Foreign service retirement and disability fund—		
<b>Assessments and reimbursements—</b>			Interest on investments.....	10	10
Salaries and expenses, national-bank examiners.....	2,451	2,602	Deductions from salaries.....	-----	1
Expenses of redeeming national currency.....	547	524	Soldiers' Home permanent fund.....	546	714
Assessments on Federal reserve banks for Federal Reserve Board.....	2,350	1,899	Pay of the Army deposit fund.....	980	1,563
Assessments on Federal intermediate credit and Federal and joint stock land banks for Federal Farm Loan Board.....	588	723	Navy and Marine Corps deposit funds.....	211	( <sup>6</sup> 7)
Overhead charges on sales of services or supplies (War and Navy).....	169	101	Indian moneys—		
Settlement of claims (War, Navy, and Treasury).....	-----	10,079	Oil and gas leases, etc, Osage Reservation, Okla.....	18,546	11,954
Settlement of claims (War and Interior).....	326	-----	Proceeds of labor.....	2,682	2,933
			Kiowa, Comanche, and Apache Indians, Oklahoma, moneys due for oil and gas, act Mar 4, 1923.....	1,201	112
			Sales and leases of Indian lands, etc.....	1,553	1,408
			Miscellaneous trust funds.....	313	436

<sup>5</sup> For contributions to Library of Congress trust fund see "Trust funds."<sup>6</sup> Less than \$500.<sup>7</sup> Apparent decrease is due to the fact that in 1928 adjustments were made between general account of advances and these accounts by transfer and counter warrants, whereas in prior years adjustments were effected by pay warrants, the proceeds of which were redeposited as miscellaneous receipts. In 1928 this adjustment is excluded from both receipts and expenditures, as it does not affect the cash in the Treasury.

No. 186.—RECEIPTS OF THE GOVERNMENT: BY SOURCES, YEARS ENDED  
JUNE 30—Continued

[All figures in thousands of dollars]

	1927	1928		1927	1928
ORDINARY RECEIPTS—contd.			ORDINARY RECEIPTS—contd.		
Miscellaneous—Continued.			Add receipts credited direct to appropriations <sup>a</sup>		
Revenues of District of Columbia—			Proceeds of railroad securities owned by the Government	89, 726	164, 812
District of Columbia share (excluding trust funds).....	27, 841	30, 303	Miscellaneous receipts.....	14, 975	9, 495
District of Columbia trust funds.....	2, 671	2, 475	Total ordinary receipts (cash basis, revised)....	4, 128, 423	4, 038, 258
United States share.....	117	124			
Grand total, all items.....	4, 023, 728	3, 863, 929	OTHER RECEIPTS		
Adjustment for uncovered moneys and items counter- entered in fiscal year sub- sequent to deposit.....	-7	( <sup>b</sup> )	Public debt receipts.....	5, 185, 083	6, 855, 341
Total (warrant receipts)....	4, 023, 722	3, 863, 929	Postal revenues.....	683, 122	693, 634

<sup>a</sup> Less than \$500<sup>b</sup> These items represent cash receipts which are credited against the expenditures shown on a warrant basis and must be added back to receipts by warrants in order to adjust to an actual cash basis.

Source: Annual Report of the Secretary of the Treasury.

No. 187.—EXPENDITURES OF THE GOVERNMENT: DETAILS OF, YEARS ENDED  
JUNE 30

NOTE.—Figures are on the basis of checks issued, see general note, p. 169

[All figures in thousands of dollars]

	1927	1928		1927	1928
GENERAL EXPENDITURES			GENERAL EXPENDITURES—CON.		
Legislative establishment.....	19, 148	16, 423	Treasury Department—Con.		
United States Senate.....	2, 784	3, 006	Customs service <sup>a</sup> —		
House of Representatives.....	7, 593	7, 691	Collecting the revenue.....	17, 147	17, 769
Legislative, miscellaneous.....	15	79	Miscellaneous expenses.....	212	239
Architect of the Capitol.....	4, 698	1, 162	Bureau of the Budget.....	167	161
Botanic Garden.....	130	129	Federal Farm Loan Bureau.....	566	733
Library of Congress.....	1, 457	1, 718	Office of Treasurer of the United States.....	1, 547	1, 523
Government Printing Office.....	2, 472	2, 637	Office of Comptroller of the Currency.....	2, 572	2, 639
Executive office: Salaries and expenses.....	608	585	Internal Revenue Service <sup>a</sup> —		
Department of State.....	16, 439	11, 560	Collecting the revenue.....	33, 090	34, 482
Department of State proper.....	1, 813	1, 367	Bureau of Prohibition—En- forcement of narcotic and prohibition acts.....	12, 329	13, 519
Foreign intercourse.....	<sup>1</sup> 14, 652	<sup>1</sup> 10, 224	Coast Guard.....	27, 918	27, 334
Special deposit accounts.....	<sup>2</sup> 26	<sup>2</sup> 31	Bureau of Engraving and Printing.....		
Treasury Department <sup>a</sup> .....	151, 505	199, 272	Administrative salaries.....	464	464
Office of the secretary.....	152	158	Compensation of employ- ees.....	3, 426	3, 573
Office of the chief clerk and superintendent.....	<sup>4</sup> 1, 000	591	Materials and miscella- neous expenses.....	1, 155	848
Division of supply <sup>4</sup> .....	117	1, 407	New machinery and equip- ment.....	22	-----
General Supply Committee.....	72	113	Plate printing.....	1, 949	1, 858
Office of commissioner of accounts and deposits.....	72	80	Secret Service.....	453	496
Division of bookkeeping and warrants.....	601	642	Public Health Service—		
Public Debt Service.....	4, 455	5, 347	Administrative salaries and miscellaneous items.....	1, 421	1, 580
World War Foreign Debt Commission.....	2	4	Pay of commissioned offi- cers, pharmacists, acting assistant surgeons, and other employees.....	2, 467	2, 499
Division of appointments.....	60	( <sup>b</sup> ) 59	Pay of personnel and main- tenance of hospitals.....	5, 254	5, 440
Division of printing.....	738	( <sup>b</sup> )			
Office of disbursing clerk.....	51	51			

<sup>1</sup> Exclusive of investments of trust funds, see p. 178.<sup>2</sup> Excess of credits, deduct.<sup>3</sup> Exclusive of refunds, debentures, drawbacks, etc., shown under "Refunds of receipts," p. 178.<sup>4</sup> "Division of supply" includes in 1928 the former division of printing and also \$399,000 for "Stationery, Treasury Department," included in 1927 under "Office of the chief clerk and superintendent."

No. 187.—EXPENDITURES OF THE GOVERNMENT: DETAILS OF, YEARS ENDED  
JUNE 30—Continued

[All figures in thousands of dollars]

	1927	1928		1927	1928
GENERAL EXPENDITURES—CON.			GENERAL EXPENDITURES—CON.		
<b>Treasury Department—Contd.</b>			<b>War Department—Continued.</b>		
Mints and assay offices.....	1,548	1,590	<b>Military activities—Contd.</b>		
<i>Public buildings—</i>			<i>Ordnance Department—</i>		
Salaries, Office of Super- vising Architect.....	334	348	Ordnance service.....	1,094	1,020
Operating expenses.....	10,036	10,440	Ordnance stores and supplies.....	230	558
Repairs, equipment, and general expenses.....	3,307	3,257	Ammunition.....	1,617	2,511
Public buildings, sites, construction, and rent.....	7,313	6,031	Automatic rifles and manufacture of arms.....	570	804
Quarantine stations.....	330	103	Nitrate plants.....	15	4
Hospitals.....	221	567	Arsenals.....	711	776
American Printing House for the Blind.....	50	75	Field artillery armament.....	1,627	1,779
Judgments, United States courts, Treasury.....	535	89	Miscellaneous items.....	405	111
Miscellaneous.....	216	208	Chemical Warfare Service.....	1,173	1,272
Special deposit accounts.....	626	2,105	Chief of Infantry.....	54	58
Premium on public debt.....	7,111	1,267	Chief of Cavalry.....	17	16
Subscription to capital stock of Federal intermediate credit banks.....	1,000		Chief of Field Artillery.....	18	24
Payment into German Special Account <sup>4</sup> .....		50,000	Chief of Coast Artillery.....	178	349
			Military Academy.....	2,713	3,087
<b>War Department (exclusive of Panama Canal).....</b>	<b>355,663</b>	<b>387,649</b>	Militia Bureau.....	29,522	32,512
<b>Military activities.....</b>	<b>267,318</b>	<b>293,289</b>	Organized Reserves and military training of citi- zens.....	9,420	10,394
Office of the Secretary.....	1,098	987	National Board for Promo- tion of Rifle Practice.....	57	305
General Staff Corps.....	272	268	Special deposit accounts.....	1,724	591
Adjutant General's De- partment.....	1,616	1,557	<b>Nonmilitary activities.....</b>	<b>88,344</b>	<b>94,360</b>
Office of Inspector General.	25	25	Finance Service.....	( <sup>5</sup> )	5
Office of Judge Advocate General.....	80	83	National cemeteries.....	818	1,274
Army account of advances.....	2,009	1,721	National military parks.....	209	243
<i>Finance Department—</i>			Signal Corps.....	177	160
Pay of the Army.....	121,994	129,189	Medical Department.....	80	73
Mileage of the Army.....	682	751	Miscellaneous items under Corps of Engineers.....	1,221	1,184
Finance service.....	1,073	1,036	<i>Rivers and harbors—</i>		
Miscellaneous items.....	525	631	Improving rivers.....	61,309	73,888
Pay of the Army, de- posit fund, trust fund.....	1,566	1,222	Improving harbors.....	281	531
<i>Quartermaster Corps—</i>			Special fund.....	3,779	3,933
Army transportation.....	14,549	15,166	Special deposit accounts.....	15	77
Barracks and quarters.....	3,977	4,694	Inland and Coastwise Wa- terways Service.....	2,500	1,000
Clothing and equipage.....	6,344	6,158	Natural homes for dis- abled volunteer soldiers.....	9,661	8,244
Construction of build- ings, utilities, etc., at military posts.....	945	3,895	War claims and relief acts.....	7,393	2,859
Construction and repair of hospitals.....	623	2,452	<i>Trust funds—</i>		
Incidental expenses of the Army.....	3,545	3,576	Estates of deceased sol- diers.....	19	20
Regular supplies of the Army.....	11,733	11,944	Soldiers' Home perma- nent fund.....	768	660
Roads, walks, wharves, and drainage.....	753	961	Miscellaneous.....	113	108
Subsistence of the Army.....	17,625	24,297	<b>Department of justice.....</b>	<b>24,663</b>	<b>27,591</b>
Water and sewers at military posts.....	2,320	2,675	<i>Department of Justice proper—</i>		
Miscellaneous items.....	1,306	1,923	Salaries and expenses.....	2,320	1,960
Signal Corps.....	1,673	2,317	Detection and prosecution of crimes.....	2,004	2,237
Air Service.....	16,952	19,640	<i>Judicial—</i>		
Medical Department.....	1,273	1,394	Courts, salaries, and ex- penses.....	11,554	13,081
Bureau of Insular Affairs.....	78	88	Fees of jurors and witnesses.....	2,732	3,569
Corps of Engineers.....	954	966	Penal institutions.....	6,026	6,851
Fortifications, etc., Pan- ama Canal.....	586	1,166	Miscellaneous.....	51	4
			Special deposits accounts.....	283	111
			<b>Post Office Department: <sup>7</sup> Mis- cellaneous expenses.....</b>	<b>53</b>	<b>62</b>
			<b>Navy Department.....</b>	<b>324,238</b>	<b>332,202</b>
			Office of the Secretary—		
			Pay, miscellaneous.....	1,741	1,311
			Other items.....	1,477	1,471

<sup>2</sup> Excess of credits, deduct.<sup>4</sup> Represents payment of amount appropriated for claims of German Nationals against the United States (awards and expenses of administration, War Claims Arbitrator) under settlement of war claims act of 1928.<sup>6</sup> Included under war claims and relief acts in 1927.<sup>7</sup> For deficiency in postal revenues see p. 178.

No. 187.—EXPENDITURES OF THE GOVERNMENT: DETAILS OF, YEARS ENDED  
JUNE 30—Continued

[All figures in thousands of dollars]

	1927	1928		1927	1928
<b>GENERAL EXPENDITURES—CON.</b>			<b>GENERAL EXPENDITURES—CON.</b>		
<b>Navy Department—Contd.</b>			<b>Department of Interior—Con.</b>		
Office of Naval Records and Library.....	39	37	<b>Bureau of Indian Affairs—Con.</b>		
Office of Judge Advocate General.....	100	106	Interest on Indian trust funds.....	1,330	762
Office of Chief of Naval Operations.....	249	246	Trust funds.....	22,871	19,625
<i>Bureau of Navigation</i>			Fulfilling treaty stipulations.....	873	856
Organizing the Naval Reserve.....	577	3,794	Miscellaneous expenses.....	3,397	7,368
Transportation.....	4,322	5,548	Special deposit accounts.....	1,393	1,575
Other items.....	6,677	3,682			
Bureau of Engineering.....	19,351	19,909	<b>Department of Agriculture.....</b>	<b>155,584</b>	<b>161,752</b>
Bureau of Construction and Repair.....	18,010	19,861	Office of the Secretary.....	1,055	1,250
Bureau of Ordnance.....	12,353	12,162	Office of Information.....	1,183	1,194
<i>Bureau of Supplies and Accounts—</i>			Library.....	80	90
Pay of the Navy.....	121,540	8,311	Office of Experiment Stations.....	3,206	3,729
Provisions.....	19,049	8,315	Extension service.....	1,559	1,619
Fuel and transportation.....	12,020	10,823	Weather Bureau.....	2,539	2,791
Pay, subsistence, and transportation, Navy.....	( <sup>2</sup> )	141,173	Bureau of Animal Industry.....	7,563	8,117
Maintenance.....	10,041	9,657	Meat Inspection, Bureau of Animal Industry.....	4,847	5,427
Naval supply account fund.....	2,072	2,112	Bureau of Dairy Industry.....	496	527
Clothing and small stores special fund.....	2,545	2,710	Bureau of Plant Industry.....	3,711	4,108
Other items.....	3,980	1,256	Forest Service.....	10,399	9,558
<b>Bureau of Medicine and Surgery.....</b>	<b>4,490</b>	<b>4,385</b>	Bureau of Chemistry and Soils.....	1,973	1,279
Bureau of Yards and Docks.....	10,777	12,103	Bureau of Entomology.....	5,989	9,087
Bureau of Aeronautics.....	15,364	22,197	Bureau of Biological Survey.....	1,009	1,231
Naval Academy.....	2,064	1,849	Bureau of Public Roads.....	416	483
<i>Marine Corps—</i>			Road construction.....	92,100	90,440
Pay.....	14,911	15,337	Bureau of Agricultural Economics.....	4,676	5,313
General expenses.....	7,866	12,408	Bureau of Home Economics.....	129	127
Other items.....	358	486	Federal Horticultural Board.....	765	1,025
Increase of Navy.....	38,832	38,564	Food, Drug, and Insecticide Administration.....	178	1,311
General account of advances.....	2,065	21,628	Cooperative agricultural extension work.....	5,879	5,878
Miscellaneous.....	1,629	1,819	Lands for protection of watersheds and streams.....	1,117	1,933
Special deposit accounts.....	219	229	Miscellaneous.....	1,505	1,670
			<i>Special funds—</i>		
<b>Department of the Interior.....</b>	<b>302,064</b>	<b>299,684</b>	Cooperative work, Forest Service.....	1,459	1,508
<b>Interior civil.....</b>	<b>269,541</b>	<b>260,954</b>	Payments to States and Territories from national forests fund.....	1,286	1,285
Office of the Secretary.....	963	940	Other special funds.....	514	770
General Land Office.....	11,937	6,197	Special deposit accounts.....	248	( <sup>11</sup> )
<i>Bureau of Pensions<sup>10</sup></i>					
Salaries and expenses.....	1,466	1,365	<b>Department of Commerce.....</b>	<b>30,388</b>	<b>34,325</b>
Army pensions.....	220,359	218,300	Office of the Secretary.....	1,987	2,306
Navy pensions.....	9,597	10,397	Aircraft in Commerce.....	490	2,497
Fees of examining surgeons.....	535	496	Bureau of Foreign and Domestic Commerce.....	3,134	3,662
Bureau of Reclamation.....	8,247	9,501	Bureau of the Census.....	2,041	2,093
Geological Survey.....	1,812	1,705	Steamboat Inspection Service.....	975	1,053
National Parks.....	3,786	5,217	Bureau of Navigation.....	519	610
Bureau of Education.....	954	1,002	Bureau of Standards.....	1,806	2,216
Colleges for agriculture and mechanic arts.....	2,550	2,550	Bureau of Lighthouses.....	10,054	10,406
Territorial governments.....	296	198	Coast and Geodetic Survey.....	2,243	2,228
Beneficiaries.....	1,891	1,807	Bureau of Fisheries.....	1,628	1,922
Alaska Railroad.....	1,572	1,322	Patent Office.....	3,018	2,766
Miscellaneous.....	36	8	Bureau of Mines.....	2,461	2,491
Special deposit accounts.....	539	260	Miscellaneous.....	16	11
			Special deposit accounts.....	10	64
<b>Bureau of Indian Affairs.....</b>	<b>35,524</b>	<b>38,729</b>			
Salaries and general expenses.....	1,446	1,481	<b>Department of Labor.....</b>	<b>9,841</b>	<b>9,830</b>
Expenses and Indian Commissioners.....	10	10	Office of the Secretary.....	678	712
General support and civilization.....	852	911	Bureau of Labor Statistics.....	202	297
Education.....	6,138	6,141	Bureau of Immigration.....	6,411	6,449

<sup>2</sup> Excess of credits, deducted<sup>8</sup> See "Pay subsistence and transportation, Navy," below, and note 9.<sup>9</sup> Expenditures for 1927 included under "Transportation, Bureau of Navigation," "Pay of the Navy," and "Provisions," Bureau of Supplies and Accounts.<sup>10</sup> For civil service retirement fund see p. 178.<sup>11</sup> Less than \$500.



No. 187.—EXPENDITURES OF THE GOVERNMENT: DETAILS OF, YEARS ENDED  
JUNE 30—Continued

[All figures in thousands of dollars]

	1927	1928		1927	1928
<b>GENERAL EXPENDITURES—CON</b>			<b>GENERAL EXPENDITURES—CON</b>		
<b>Department of Labor—Contd</b>			<b>Other independent bureaus and offices—Continued.</b>		
Bureau of Naturalization.....	735	737	U. S. Geographic Board.....	3	4
Children's Bureau.....	1,315	1,238	U. S. Tariff Commission.....	703	646
Women's Bureau.....	109	99			
Employment Service.....	199	195	<b>District of Columbia.....</b>	<b>37,708</b>	<b>39,487</b>
Miscellaneous.....	21	9			
Special deposit accounts.....	60	34	<b>Unclassified items.....</b>	<b>573</b>	<b>688</b>
<b>U. S. Veterans' Bureau <sup>12</sup>.....</b>	<b>394,060</b>	<b>405,040</b>			
Salaries and expenses.....	36,574	37,822	<b>Total general expenditures.....</b>	<b>1,857,662</b>	<b>1,961,625</b>
Adjusted service and dependent pay.....	9,959	10,150			
Medical and hospital service.....	30,045	28,553	<b>SPECIAL EXPENDITURES</b>		
Military and naval compensation.....	173,527	181,738	Interest on public debt.....	787,794	731,850
Military and naval insurance (appropriated fund).....	127,019	117,449	<i>Refunds of receipts</i>		
Vocational rehabilitation.....	2,217	254	Customs.....	20,293	21,957
Military and naval family allowance.....	<sup>2</sup> 108	<sup>2</sup> 10	Internal Revenue.....	113,008	144,738
Miscellaneous items.....	4,745	5,300	Postal deficiency.....	27,263	32,080
<i>Special funds—</i>			Panama Canal.....	8,512	10,522
Military and naval insurance.....	<sup>2</sup> 6,020	3,333	<i>Operations in special accounts.</i>		
Miscellaneous special funds.....	2	-----	Railroads.....	984	<sup>2</sup> 395
Government life insurance fund (trust fund) <sup>13</sup> .....	-----	-----	War Finance Corporation.....	<sup>2</sup> 27,026	<sup>2</sup> 3,303
Expenses.....	16,069	20,669	Shipping Board.....	18,655	33,836
Special deposit accounts.....	21	<sup>2</sup> 279	Alien property funds.....	<sup>2</sup> 86	10
<b>Other independent bureaus and offices <sup>14</sup>.....</b>	<b>35,181</b>	<b>35,476</b>	Adjusted service certificate fund.....	115,720	111,675
Alaska relief funds.....	15	19	Civil service retirement fund.....	<sup>15</sup> 1,309	<sup>15</sup> 78
Alien Property Custodian.....	<sup>14</sup> 159	<sup>14</sup> 35	<i>Investment of trust funds</i>		
American Battle Monuments Commission.....	105	117	Government life insurance.....	48,938	61,062
Arlington Memorial Bridge Commission.....	1,455	2,266	District of Columbia teachers' retirement.....	290	523
Board of Mediation.....	227	276	Foreign service retirement.....	87	72
Board of Tax Appeals.....	538	664	General railroad contingent.....	871	1,180
Bureau of Efficiency.....	175	216			
Civil Service Commission.....	1,003	1,151	<b>Total ordinary expenditures.....</b>	<b>2,974,274</b>	<b>3,107,010</b>
Commission of Fine Arts.....	8	7			
Employees' Compensation Commission.....	2,940	3,643	<b>PUBLIC DEBT RETIREMENTS CHARGEABLE AGAINST ORDINARY RECEIPTS</b>		
Federal Board for Vocational Education.....	7,370	7,611	Retirements from		
Federal Oil Conservation Board.....	9	8	Sinking fund.....	333,528	354,741
Federal Power Commission.....	31	48	Foreign repayments.....	19,254	19,068
Federal Radio Commission.....	-----	54	U. S. bonds received from foreign countries under debt settlements.....	159,962	162,736
Federal Reserve Board.....	2,512	2,051	Estate taxes.....	-----	2
Federal Trade Commission.....	994	934	Franchise tax receipts (Federal reserve and Federal intermediate credit banks).....	1,232	618
General Accounting Office.....	3,842	3,953	Forfeitures, gifts, etc.....	5,587	3,081
Housing Corporation.....	1,114	477			
Interstate Commerce Commission.....	<sup>13</sup> 6,609	<sup>13</sup> 7,148	<b>Total.....</b>	<b>519,584</b>	<b>540,246</b>
Miscellaneous commissions, boards, etc.....	206	157	<b>Grand total all items.....</b>	<b>3,493,838</b>	<b>3,647,256</b>
National Advisory Committee for Aeronautics.....	531	536	Less net increase in outstanding checks.....	330	2,250
National Sesquicentennial Exhibition Commission.....	1,293	22			
Office of Public Buildings and Public Parks of the National Capital.....	2,465	2,446	<b>Total expenditures chargeable against ordinary receipts.....</b>	<b>3,493,508</b>	<b>3,645,006</b>
Smithsonian Institution and National Museum.....	854	937			
			Public debt retirements chargeable against public debt receipts and surplus revenue.....	5,798,528	7,220,978
			Postal expenditures, exclusive of postal deficiencies.....	687,365	693,675

<sup>12</sup> Excess of credits, deduct<sup>13</sup> Exclusive of adjusted service certificate fund and Government life insurance fund investments.<sup>14</sup> For investment of trust funds see "Special expenditures."<sup>15</sup> Exclusive of operations in special accounts shown under "Special expenditures."<sup>16</sup> Excess of expenditures and investments over current deposits.

Source. Annual Report of the Secretary of the Treasury.

## GOVERNMENT

## RECEIPTS AND EXPENDITURES—U. S. GOVERNMENT

179

No. 188.—ORDINARY RECEIPTS AND EXPENDITURES CHARGEABLE AGAINST  
ORDINARY RECEIPTS: BY MONTHSNOTE—Figures are on the "current cash" basis shown by daily Treasury statements, unrevised; see  
general note, p. 169

[All figures in thousands of dollars]

Year and month	Ordinary receipts					Expenditures chargeable against ordinary receipts		
	Total	Customs	Income taxes	Miscel- laneous internal revenue	Miscel- laneous revenue	Total	Ordinary	Public debt re- tirements
1926.								
July.....	236,020	49,352	50,947	56,331	79,390	222,005	197,095	25,000
August.....	192,954	51,815	43,300	52,264	45,575	254,802	185,466	69,336
September.....	576,528	58,596	441,965	53,954	25,013	290,465	250,451	40,014
October.....	192,919	60,969	40,770	61,267	29,913	367,595	321,795	45,800
November.....	176,002	52,655	40,630	54,969	27,748	264,250	235,269	28,982
December.....	657,066	48,431	429,229	55,671	123,765	414,032	255,885	158,148
1927:								
January.....	169,583	44,695	40,336	52,247	32,305	304,254	303,022	1,232
February.....	165,735	43,379	46,260	43,231	32,815	158,506	158,506	(1)
March.....	659,116	52,753	516,535	53,001	36,827	330,329	270,111	60,218
April.....	190,380	51,253	52,280	52,867	32,979	310,511	310,478	34
May.....	170,370	45,615	47,206	53,451	24,098	213,028	213,008	20
June.....	742,691	48,988	474,535	55,117	164,051	363,726	272,944	90,781
July.....	173,970	50,481	33,171	60,239	30,079	203,579	194,779	8,800
August.....	202,182	52,982	39,695	51,026	58,478	259,181	213,150	46,032
September.....	590,192	54,410	446,005	52,389	37,388	287,442	267,442	20,000
October.....	221,205	56,617	34,577	49,160	80,851	413,220	341,232	71,988
November.....	149,683	47,660	30,515	49,442	22,065	406,830	203,318	203,512
December.....	652,708	43,113	439,960	48,938	120,697	354,178	256,180	97,998
1928:								
January.....	188,840	41,975	41,577	50,952	34,336	349,142	345,515	3,627
February.....	228,118	42,130	43,005	42,455	100,498	173,283	172,815	467
March.....	641,626	48,277	515,689	50,017	27,664	248,258	248,245	13
April.....	169,965	45,740	46,276	47,417	30,531	326,709	326,706	3
May.....	164,932	41,438	45,400	56,419	21,675	217,091	217,071	21
June.....	678,927	44,162	458,103	62,534	114,128	404,607	316,813	87,794
July.....	154,859	44,591	32,603	50,001	27,663	278,620	225,562	53,058
August.....	173,495	52,797	34,693	53,472	32,532	308,594	221,868	86,726
September.....	557,398	50,410	442,985	46,378	17,625	482,600	257,048	225,552
October.....	187,627	59,741	38,609	55,776	33,501	368,653	364,047	4,606
November.....	145,156	48,436	32,205	49,892	14,623	213,629	213,629	-----
December.....	649,105	45,803	431,702	47,917	123,683	384,019	286,925	97,094

1 Less than \$500.

Source Annual Report of the Secretary of the Treasury.

## No. 189.—EXPENDITURES OF THE GOVERNMENT CHARGEABLE AGAINST

NOTE—All figures in thousands of dollars. Figures are on the "cur-

	1916	1917	1918	1919
General expenditures, total <sup>1</sup> .....	692, 526	999, 985	6, 693, 908	11, 747, 271
Legislative establishment <sup>2</sup> .....	13, 808	15, 092	15, 826	17, 090
Executive proper <sup>3</sup> .....	502	1, 280	9, 663	17, 467
State Department.....	6, 307	6, 169	9, 893	20, 766
Treasury Department <sup>4</sup> .....	71, 797	84, 294	152, 500	227, 278
War Department.....	164, 547	358, 158	4, 850, 687	8, 995, 880
Department of Justice.....	10, 539	10, 566	12, 965	15, 717
Post Office Department <sup>5</sup> .....	7, 272	1, 896	4, 173	2, 412
Navy Department.....	153, 854	239, 633	1, 278, 840	2, 002, 311
Interior Department <sup>6</sup> .....	199, 471	216, 416	244, 557	288, 286
Department of Agriculture.....	27, 970	29, 547	42, 870	39, 246
Department of Commerce.....	11, 438	11, 690	12, 834	15, 590
Department of Labor.....	3, 608	3, 852	5, 469	12, 943
Veterans' Bureau <sup>4</sup> .....				
Other independent offices and commissions <sup>2, 4</sup> .....	7, 165	7, 559	12, 715	75, 376
District of Columbia <sup>11</sup> .....	13, 255	13, 682	14, 447	16, 014
Unclassified items.....	+992	+150	+26, 470	+895
Interest on public debt.....	22, 901	24, 743	189, 743	619, 216
Other special expenditures, total <sup>1</sup> .....	18, 630	952, 954	5, 813, 051	6, 148, 393
Refunds of receipts—				
Customs <sup>5</sup> .....				
Internal revenue <sup>5</sup> .....				
Postal deficiency <sup>6</sup> .....				
Panama Canal.....	18, 630	19, 783	19, 268	13, 196
Payment for West Indian Islands.....		25, 000		
Special accounts <sup>12</sup> —				
Railroads.....			120, 264	358, 795
War Finance Corporation.....			44, 929	302, 622
Shipping Board.....		14, 291	770, 682	1, 820, 607
Alien property funds <sup>3</sup> .....				
Grain Corporation.....				
Food and Fuel Administrations.....			54, 800	87, 338
Sugar Equalization Board.....				
Purchase of obligations of foreign governments.....		885, 000	4, 738, 030	3, 479, 255
Purchase of Federal farm loan bonds.....			65, 018	86, 530
Subscription to stock, Federal land banks.....		8, 880		
Adjusted service certificate fund.....				
Investment of trust funds—				
Government life insurance <sup>8</sup> .....				
Civil service retirement <sup>9</sup> .....				
District of Columbia teachers' retirement <sup>11</sup> .....				
Foreign service retirement.....				
General railroad contingent.....				
Total ordinary.....	734, 056	1, 977, 682	12, 696, 702	18, 514, 880
Public debt retirements (chargeable against ordinary receipts) from—				
Sinking fund.....				
Debt repayments from foreign countries, including U. S. bonds.....				7, 922
Estate taxes.....				93
Franchise taxes, Federal Reserve and Federal Intermediate credit banks.....			1, 134	
Forfeitures, gifts, etc.....				
Total.....			1, 134	8, 016
Total expenditures chargeable against ordinary receipts.....	734, 056	1, 977, 682	12, 697, 837	18, 522, 895

<sup>1</sup> Totals prior to 1922 are not comparable with later years because of changes in classification of general and special expenditures.<sup>2</sup> In the fiscal years 1921, 1922, and 1923, material changes were made in classification of expenditures between legislative establishment, executive proper, and other independent offices and commissions.<sup>3</sup> Alien property funds included under executive proper prior to fiscal year 1922.<sup>4</sup> Payments for veterans' relief made prior to Aug. 11, 1921, by the War Risk Insurance Bureau are included under Treasury Department, while similar payments made prior to that date by the Federal Board for Vocational Education are under other independent offices and commissions.<sup>5</sup> Refunds of customs and internal revenue receipts and investments of Government life insurance fund included under Treasury Department prior to 1922.<sup>6</sup> Postal deficiency included under Post Office Department prior to 1922.<sup>7</sup> Post Office Department expenditures for 1921 include \$65,576,000 paid to the Railroad Administration. This resulted in a corresponding decrease in expenditures for Federal control of transportation.<sup>8</sup> Deduct, excess of credits.<sup>9</sup> Civil service retirement fund, established May, 1920, included under Interior Department prior to 1922.

## ORDINARY RECEIPTS: BY MAJOR CLASSIFICATIONS, YEARS ENDED JUNE 30

rent cash" basis, according to daily Treasury statements, unrevised

1920	1921	1922	1923	1924	1925	1926	1927	1928
3,231,652	3,079,884	2,135,868	1,950,041	1,828,463	1,837,004	1,826,727	1,857,859	1,953,327
19,328	18,983	17,088	14,165	14,316	13,856	15,776	19,678	16,402
6,676	210	219	349	451	412	439	612	583
13,538	8,781	9,667	15,463	14,669	15,054	16,321	16,498	11,607
322,316	488,637	209,105	145,017	137,411	128,532	136,579	151,500	195,649
1,610,587	1,101,615	454,731	392,734	348,630	361,888	355,072	360,800	390,511
17,814	17,206	17,889	23,521	21,134	23,496	23,771	24,819	27,600
50,049	7 135,359	3,384	147	187	80	96	180	277
736,021	630,374	476,773	333,201	332,249	346,142	312,743	318,909	331,333
279,245	357,815	331,814	354,623	328,228	302,411	301,750	302,707	299,000
65,546	119,838	142,696	128,746	141,116	164,644	155,350	156,287	159,915
30,011	30,829	21,688	21,784	21,430	25,783	29,132	30,940	34,383
5,415	8,503	6,227	7,241	6,620	9,678	8,545	9,922	9,821
59,469	119,943	<sup>10</sup> 376,750	<sup>10</sup> 461,719	<sup>10</sup> 409,121	<sup>10</sup> 384,716	401,692	391,470	401,325
19,988	22,715	43,872	28,712	28,262	27,683	32,069	35,443	35,681
-4,400	-923	28,732	21,054	25,873	32,713	34,411	37,567	39,400
		+232	-1,436	-1,234	+347	-233	+449	-199
1,020,252	999,145	991,001	1,055,924	940,603	881,807	831,938	787,020	731,764
2,151,440	1,036,899	245,740	288,663	279,612	344,284	438,947	329,162	418,173
		37,124	28,737	20,567	22,921	27,745	20,321	21,857
		45,702	125,279	127,220	147,777	182,220	117,412	148,286
		64,346	32,527	12,639	23,217	39,506	27,263	32,080
11,306	16,461	3,025	4,317	8,387	9,093	9,018	8,305	10,449
<sup>18</sup> 1,036,672	<sup>7</sup> 730,712	<sup>14</sup> 139,469	114,145	85,742	7,203	2,726	1,043	<sup>8</sup> 690
<sup>13</sup> 228,472	<sup>8</sup> 23,028	94,428	<sup>8</sup> 109,436	<sup>8</sup> 52,640	<sup>8</sup> 42,902	<sup>8</sup> 19,691	<sup>8</sup> 27,066	<sup>8</sup> 5,813
530,566	130,723	87,206	57,024	85,491	30,305	23,043	19,011	34,882
		1,826	<sup>8</sup> 1,866	<sup>8</sup> 1,161	4,018	3,516	<sup>8</sup> 496	<sup>8</sup> 551
<sup>16</sup> 350,328	<sup>16</sup> 90,353	<sup>16</sup> 32,000						
		<sup>8</sup> 15,280	2,482					
421,837	73,897	718						
29,644	16,781							
					99,459	120,152	115,219	111,818
		24,599	26,672	30,410	31,992	38,290	47,316	61,702
		9,283	8,091	8,028	9,746	10,816	<sup>8</sup> 425	109
		231	191	233	288	297	290	514
					83	100	87	81
				4,584	1,124	1,209	871	1,180
6,403,344	5,115,928	3,372,608	3,294,628	3,048,878	3,063,105	3,097,612	3,974,030	3,103,265
	261,100	276,046	284,019	295,987	306,308	317,092	333,528	354,741
72,670	73,939	64,838	100,893	149,388	159,180	169,654	179,216	181,804
3,141	26,249	21,085	6,569	8,897	48			2
2,922	60,725	60,333	10,815	3,635	794	568	1,232	618
13	169	393	555	93	208	63	5,578	3,090
78,746	422,282	422,695	402,850	468,000	486,538	487,376	519,555	540,255
6,482,090	5,538,209	3,795,302	3,697,478	3,506,678	3,529,643	3,584,988	3,493,585	3,643,520

<sup>10</sup> In 1922 to 1925 additional allotments for veterans' relief are included under the Treasury, War, and Navy Departments, and in 1924 and 1925 also under the Interior Department. In 1922 these allotments amounted to \$31,746,000; in 1923, to \$10,706,000; in 1924, to \$6,411,000, and in 1925, to \$6,058,000.

<sup>11</sup> Teachers' retirement fund included under District of Columbia prior to 1922.

<sup>12</sup> Figures are net and allow for receipts and deposits credited to the account concerned.

<sup>13</sup> Includes \$288,399,000 payments on certificates of indebtedness of Director General of Railroads.

<sup>14</sup> Deduct, excess of credits resulting from receipts of \$266,637,000 from sale of equipment trust notes and \$123,783,000 from sale or collection of other securities acquired under the transportation act, 1920. In 1923 and 1924 receipts on these accounts were included under miscellaneous receipts.

<sup>15</sup> Deduct, excess of credits from deposits by War Finance Corporation of proceeds of United States securities redeemed.

<sup>16</sup> Includes \$350,000,000 in 1920, \$100,000,000 in 1921, and \$25,000,000 in 1922 applied by U. S. Grain Corporation to reduction of capital stock and reflected in miscellaneous receipts for those years; the 1921 figure represents net expenditures after taking into account credits.

Source: Annual Report of the Secretary of the Treasury.

## No. 190.—APPROPRIATIONS BY CONGRESS FOR YEARS ENDED JUNE 30

NOTE.—All figures in thousands of dollars. Amounts shown for a specified year differ from the actual appropriations for that year, since the former include deficiency appropriations for prior years and exclude amounts for that year provided subsequently as deficiency appropriations

Branch	Number of Congress and fiscal year for which appropriated					
	64th and 65th, 1918	65th, 1919	65th and 66th, 1920	66th, 1921	66th and 67th, 1922	67th, 1923
Legislative.....	16,866	18,571	17,637	18,453	18,706	15,165
Executive Office.....	221	219	221	223	229	351
Independent offices.....	1,305,307	3,051,159	2,246,238	931,952	165,733	757,413
District of Columbia.....	15,688	16,937	17,203	20,749	23,175	26,652
Department of Agriculture.....	66,891	66,420	196,175	144,796	49,813	145,545
Department of Commerce.....	13,687	15,311	30,679	23,912	17,911	20,784
Department of the Interior.....	235,294	295,778	271,507	340,356	352,395	328,256
Department of Justice.....	12,018	14,975	18,377	16,176	17,680	20,676
Department of Labor.....	6,158	11,610	5,364	6,099	5,393	8,607
Navy Department.....	1,606,053	1,793,682	910,560	453,578	489,651	300,514
Post Office Department.....						
Payable from Treasury <sup>1</sup> .....	1,987	1,995	<sup>2</sup> 38,069	<sup>3</sup> 16,841	<sup>4</sup> 14,339	554
Payable from postal revenues <sup>5</sup> .....	335,696	385,712	412,528	523,468	701,424	572,528
Department of State.....	31,622	11,360	12,762	11,098	11,022	17,570
Treasury Department.....	7,336,096	3,418,606	317,690	432,152	359,328	243,845
Interest on the public debt.....	241,795	655,107	1,052,300	1,017,500	922,650	<sup>6</sup> 1,100,000
Sinking fund and debt retirements chargeable against ordinary receipts.....	60,748	288,890	(7)	287,500	265,755	330,089
War Department.....	7,592,813	16,993,819	876,465	494,975	459,080	359,592
Increase of compensation <sup>8</sup> .....	15,000	25,000	30,760	35,000	35,000	-----
Total.....	18,881,940	27,065,149	6,454,597	4,780,830	3,909,282	4,248,141
Deduct amount payable from postal revenues <sup>5</sup> .....	335,696	385,712	412,528	523,468	701,424	572,528
Net total.....	18,546,244	26,679,437	6,042,069	4,257,361	3,207,858	3,675,613
	67th, 1924	68th, 1925	68th, 1926	69th, 1927	69th, 1928	70th, 1929
Legislative.....	14,786	16,648	15,720	20,160	16,480	18,970
Executive Office.....	497	426	534	824	438	437
Independent offices.....	522,563	411,216	596,347	639,941	520,041	648,089
District of Columbia.....	26,633	27,967	40,209	38,459	38,920	41,541
Department of Agriculture.....	110,662	74,637	146,715	167,572	153,430	163,668
Department of Commerce.....	22,116	24,123	25,143	31,526	36,822	40,713
Department of the Interior.....	343,519	292,323	274,826	270,351	285,800	353,332
Department of Justice.....	23,846	24,227	28,104	27,200	26,432	29,049
Department of Labor.....	7,519	8,364	9,338	10,184	10,160	11,181
Navy Department.....	325,323	278,601	324,752	325,791	320,466	394,736
Post Office Department.....						
Payable from Treasury <sup>1</sup> .....	442	173	244	32	18	67
Payable from postal revenues <sup>5</sup> .....	596,909	629,199	651,256	842,420	755,364	776,975
Department of State.....	15,896	15,246	18,187	17,819	12,812	15,609
Treasury Department.....	279,612	269,355	340,915	339,207	345,269	455,474
Interest on the public debt.....	940,000	865,000	850,000	795,000	755,000	675,000
Sinking fund and debt retirements chargeable against ordinary receipts.....	507,011	471,806	484,766	515,583	563,630	541,942
War Department.....	355,211	341,340	364,625	367,386	370,429	466,795
Total.....	4,092,544	3,748,662	4,151,632	4,409,463	4,211,011	4,633,578
Deduct amount payable from postal revenues <sup>5</sup> .....	596,909	629,199	651,256	842,420	755,364	776,975
Net total.....	3,495,635	3,119,463	3,500,376	3,567,044	3,455,647	3,856,603

<sup>1</sup> Figures cover only appropriations which have been specifically designated by Congress as payable from the Treasury and are exclusive of amounts which may be required under indefinite appropriations (payable from the Treasury) provided by law to supply deficiencies in the postal revenues. (See note 5)

<sup>2</sup> Includes \$35,698,000 additional compensation, Postal Service

<sup>3</sup> Includes \$14,000,000 for deficit under Federal control of telegraph and telephone systems.

<sup>4</sup> Includes \$11,053,000 certified claims.

<sup>5</sup> These figures include amounts which may be required under indefinite appropriations (payable from the Treasury) to supply deficiencies, if any, in the postal revenues.

<sup>6</sup> Includes \$125,000,000 of accumulated interest on war-savings certificates, series of 1918, to be paid during the fiscal year 1923 though properly allocable to the full five years of their life.

<sup>7</sup> The sinking fund created by the act of Feb. 25, 1862, was repealed by the act of Mar. 3, 1919. The act of Mar. 3, 1919, created a cumulative sinking fund beginning with the fiscal year 1921.

<sup>8</sup> In 1918 to 1922, indefinite appropriations, estimated. In 1923 and 1924, definite amounts were appropriated which are included under the several departments and establishments. In 1925 to 1928 this item was absorbed by rates of pay included under the classification act, approved Mar. 4, 1923.

Source: Annual Report of the Secretary of the Treasury.

## No. 191.—INTERNAL REVENUE: AMOUNTS COLLECTED FROM PRINCIPAL SOURCES

NOTE.—All figures in thousands of dollars. The figures represent collections by internal revenue officers throughout the country, including deposits by postmasters of amounts received from sale of internal revenue stamps and deposits of internal revenue collected through customs offices, and, therefore, differ from those in Tables 182, 184, and 186 which represent the deposits of these collections in the Treasury or depositories during the fiscal year concerned, there being thus an overlapping of time. Certain items, included in the totals in the last column, are shown in detail in the second part of the table.

Yearly average or year ended June 30—	Total	Spirits <sup>1</sup>	Fermented liquors <sup>1</sup>	To-bacco <sup>1</sup>	Income and profits <sup>2</sup>	Legacies, inheritances, etc.	Manufactures and products <sup>1, 3</sup>	Sales, (consumers' or dealers') <sup>4</sup>	Stamps <sup>4</sup>	Other <sup>5</sup>
1863-1865.....	122,942	18,079	2,551	7,697	28,005	305	42,022	1,422	6,915	15,945
1866-1870.....	221,797	37,229	5,931	21,962	50,604	2,277	57,355	5,928	14,932	25,580
1871-1875.....	119,971	49,877	8,684	34,450	7,760	2,505	2,201	3,650	9,745	6,024
1876-1880.....	116,681	55,614	10,510	40,000	(?)	341	70	14	6,272	3,943
1881-1885.....	132,064	71,163	16,614	36,964	29	70	14	5	4,433	2,808
1886-1890.....	126,711	72,045	22,931	30,901	77	2,000	3	(?)	28,532	815
1891-1895.....	150,262	86,898	30,841	30,802	77	2,000	3	26,342	1,703	4,307
1896-1900.....	206,624	92,876	49,593	41,900	77	3,652	1	26,342	4,368	1,903
1901-1905.....	255,314	128,178	58,930	49,650	20,960	3,652	1	26,342	4,368	1,903
1906-1910.....	261,321	144,557	58,609	52,020	20,960	3,652	1	26,342	4,368	1,903
1911-1915.....	356,851	155,854	68,063	74,866	49,737	1,984,473	109,466	28,806	41,187	217,501
1916-1920.....	2,855,761	226,293	93,352	169,853	1,211,913	126,415	158,725	26,789	59,995	322,543
1921-1925.....	3,158,975	114,400	17	301,176	20,960	5,212	1	26,789	30,241	8,239
1901.....	306,872	116,028	75,670	62,482	20,960	5,212	1	26,789	30,241	8,239
1902.....	271,868	121,138	71,989	51,938	20,960	5,212	1	26,789	30,241	8,239
1903.....	230,741	131,953	47,548	43,515	20,960	5,212	1	26,789	30,241	8,239
1904.....	232,904	135,810	49,083	44,656	20,960	5,212	1	26,789	30,241	8,239
1905.....	234,188	135,959	50,361	45,600	20,960	5,212	1	26,789	30,241	8,239
1906.....	249,103	143,394	55,642	48,423	20,960	5,212	1	26,789	30,241	8,239
1907.....	269,664	156,337	59,508	51,811	20,960	5,212	1	26,789	30,241	8,239
1908.....	251,666	140,159	59,808	49,863	20,960	5,212	1	26,789	30,241	8,239
1909.....	246,213	134,868	57,456	51,887	20,960	5,212	1	26,789	30,241	8,239
1910.....	289,957	148,029	60,572	58,118	20,960	5,212	1	26,789	30,241	8,239
1911.....	322,526	155,280	64,368	67,006	20,960	5,212	1	26,789	30,241	8,239
1912.....	321,616	156,391	63,260	70,590	20,960	5,212	1	26,789	30,241	8,239
1913.....	344,424	163,879	66,267	70,789	20,960	5,212	1	26,789	30,241	8,239
1914.....	380,009	159,038	67,082	79,987	20,960	5,212	1	26,789	30,241	8,239
1915.....	415,681	144,620	79,329	79,957	20,960	5,212	1	26,789	30,241	8,239
1916.....	512,723	158,682	98,771	108,202	20,960	5,212	1	26,789	30,241	8,239
1917.....	869,394	192,111	91,897	108,064	20,960	5,212	1	26,789	30,241	8,239
1918.....	3,698,956	177,554	126,286	156,189	2,852,325	47,453	36,570	2,302	45,251	355,131
1919.....	3,850,150	365,211	117,840	206,003	2,600,784	82,030	75,598	45,795	57,665	562,071
1920.....	5,407,580	97,905	41,966	295,809	3,956,936	103,636	216,230	45,310	87,687	576,100
1921.....	4,595,357	82,598	25,219	255,219	3,228,138	154,043	177,802	45,795	75,665	576,071
1922.....	3,197,451	114,563	46	270,759	2,086,918	139,419	143,942	28,129	58,225	424,440
1923.....	2,621,745	130,354	4	309,015	1,691,090	126,705	163,981	21,136	61,490	217,670
1924.....	2,796,179	112,780	5	325,639	1,841,759	102,967	177,532	23,390	58,526	238,781
1925.....	2,584,140	125,903	2	345,247	1,761,659	130,382	10,495	40,068	155,444	145,544
1926.....	2,836,000	112,646	16	370,666	1,974,104	119,216	142,493	7,728	49,801	145,540
1927.....	2,865,683	121,195	1	376,170	2,219,952	100,340	66,850	32,603	48,572	48,572
1928.....	2,790,536	115,807	(?)	396,450	2,174,573	60,087	51,952	43,818	48,572	48,572

Year	Trans- portation, telegraph, etc	Beverages (nonal- coholic), etc	Corpora- tion capital stock	Theater admis- sions, etc	Year	Trans- portation, telegraph, etc	Beverages (nonal- coholic), etc	Corpora- tion capital stock	Theater admis- sions, etc
1917.....	70,737	2,215	10,472	26,357	1923.....	30,381	10,132	81,568	70,175
1918.....	237,840	7,182	28,776	50,920	1924.....	34,662	10,419	87,472	77,713
1919.....	289,348	57,461	98,020	76,721	1925.....	90,003	30,908	97,886	23,981
1920.....	301,512	58,676	81,526	89,731	1926.....	8,970	17,941	8,970	17,941
1921.....	198,790	33,504	80,612	73,385	1927.....	8,689	17,941	8,689	17,941
1922.....					1928.....				

<sup>1</sup> Including special taxes relating to manufacture and sale

<sup>2</sup> Including receipts from excise tax on corporations for the years 1910 to 1914, and munition manufacturers' tax for 1917 and 1918

<sup>3</sup> Including receipts from the tax on raw cotton from 1863 to 1873

<sup>4</sup> Including sales by postmasters of documentary stamps beginning with 1918.

<sup>5</sup> The totals in this column for the years 1917 to 1928 include items shown in detail in second part of table.

<sup>6</sup> Figures for one year only

<sup>7</sup> Less than \$500

<sup>8</sup> Average for two years.

<sup>9</sup> Average for three years.

<sup>10</sup> Average for four years.

<sup>11</sup> Consists chiefly of tax on distilled spirits (nonbeverage)

<sup>12</sup> Includes excise tax on perfumes, cosmetics, and medicinal articles amounting to \$2,805,000.

<sup>13</sup> Includes gift tax amounting to \$7,518,000 in 1925 and \$3,175,000 in 1926.

Source. Annual Report of the Secretary of the Treasury.

## No. 192.—INTERNAL REVENUE: RECEIPTS FROM EACH SPECIFIC SOURCE

NOTE.—All figures in thousands of dollars. Data are for years ended June 30. See also headnote, Table 191

	1923	1924	1925	1926	1927	1928
Grand total.....	2, 621, 745	2, 796, 179	2, 584, 140	2, 836, 000	2, 865, 683	2, 790, 536
Income and profits <sup>1</sup> .....	1, 691, 090	1, 841, 759	1, 761, 659	1, 974, 104	2, 219, 952	2, 174, 573
Corporation <sup>1</sup> .....			916, 233	1, 094, 980	1, 308, 013	1, 291, 846
Individual.....			845, 426	879, 124	911, 940	882, 727
Estates of decedents.....	126, 705	102, 987	101, 422	116, 041	100, 340	60, 087
Gifts. Transfer of property by gift.....			7, 518	3, 175		
Distilled spirits.....	30, 354	27, 580	25, 903	26, 436	21, 195	15, 307
Distilled spirits (nonbeverage).....	27, 710	24, 825	23, 179	23, 752	18, 757	13, 609
Distilled spirits (beverage) and rectified spirits or wines.....	100	31	15	55	16	14
Still or sparkling wines, cordials, etc.....	1, 532	1, 454	1, 695	1, 679	796	893
Grape brandy used in fortifying sweet wines.....	377	665	475	322	401	201
Miscellaneous collections.....	634	605	639	627	1, 225	590
Fermented liquors.....	4	5	2	16	1	( <sup>2</sup> )
Tobacco.....	309, 015	325, 639	345, 247	370, 666	376, 170	396, 450
Cigars (large).....	47, 273	45, 205	43, 347	38, 319	23, 545	22, 879
Cigars (small).....	865	756	731	533	353	301
Cigarettes (large).....	131	126	110	127	87	76
Cigarettes (small).....	182, 585	203, 651	225, 033	254, 825	278, 929	301, 753
Snuff.....	7, 175	7, 005	6, 754	6, 918	6, 908	7, 461
Tobacco, chewing and smoking.....	68, 858	66, 700	66, 922	67, 711	65, 070	62, 775
Cigarette papers and tubes.....	1, 096	1, 029	1, 189	1, 061	1, 170	1, 124
Manufacturers (special taxes).....	1, 005	1, 137	1, 126	1, 132		
Miscellaneous collections.....	28	28	36	41	109	81
Revenue acts of 1921, 1924, and 1926.....	458, 415	490, 277	326, 607	341, 181	142, 327	138, 232
Documentary stamps, etc.—						
Sales by postmasters.....	11, 843	12, 418	7, 738	7, 881	35	2
Bonds of indebtedness, capital-stock issues, etc.....	32, 760	30, 613	20, 125	20, 600	13, 009	15, 559
Capital-stock sales or transfers.....	9, 872	7, 937	12, 809	17, 137	16, 674	24, 209
Sales of produce (future deliveries).....	7, 015	7, 558	5, 397	4, 183	2, 885	4, 048
Playing cards.....	3, 385	3, 732	3, 183	4, 213	4, 742	5, 011
Telegraph, telephone, radio messages, leased wires, etc.....	30, 380	34, 663				
Excise taxes—						
Automobile trucks.....	10, 679	11, 511	7, 808	6, 817		
Other automobiles and motor cycles.....	92, 737	112, 871	94, 142	113, 133	66, 438	51, 628
Tires, parts, or accessories for automobiles, etc.....	40, 875	33, 634	22, 737	18, 205		
Pistols and revolvers.....				51	193	169
Other firearms, shells, etc.....	4, 330	3, 370	3, 664	2, 567		
Jewelry, clocks, watches, opera glasses, etc.....	20, 298	22, 634	9, 673	7, 308		
Cereal beverages <sup>3</sup> .....	<sup>3</sup> 10, 132	<sup>3</sup> 10, 419		<sup>4</sup> 54	199	139
Miscellaneous.....	16, 145	16, 853	2, 829	2, 063		
Opium, coca leaves, including special taxes, etc.....	1, 013	1, 057	1, 091	982	798	690
Corporations, on value of capital stock.....	81, 568	87, 472	90, 003	97, 386	4, 970	4, 889
Other special taxes.....	8, 034	7, 815	5, 812	4, 548	8	10
Admissions to theaters, concerts, cabarets, etc.....	70, 175	77, 713	30, 908	23, 981	17, 941	17, 725
Dues of clubs.....	7, 171	8, 010	8, 691	10, 074	10, 436	10, 353
Miscellaneous.....						
Adulterated, process or renovated butter, filled cheese, and mixed flour.....	53	49	25	22	21	15
Oleomargarine.....	2, 255	2, 814	3, 039	3, 070	3, 164	3, 408
Collections under prohibition laws.....	729	855	561	416	503	925
Collections through customs offices and other miscellaneous receipts <sup>5</sup> .....	3, 125	4, 233	12, 157	871	2, 010	1, 537

<sup>1</sup> Includes income tax on Alaska railroads (act of July 18, 1914); also includes in 1923 payments of the third and fourth installments of the profits tax for the calendar year 1921.<sup>2</sup> Less than \$500.<sup>3</sup> Beverages (nonalcoholic), including soft drinks, mineral waters, etc., in 1923 and 1924.<sup>4</sup> Tax due prior to July 1, 1926.<sup>5</sup> Consists chiefly of delinquent taxes collected under repealed laws.

Source: Annual Report of the Commissioner of Internal Revenue.

**No. 193.—INTERNAL REVENUE: RECEIPTS BY STATES, YEARS ENDED JUNE 30**

**NOTE**—The internal revenue, especially the miscellaneous revenue, collected in a given State may bear little relation to the amount of taxes ultimately falling upon the people living in that State

[All figures in thousands of dollars]

Division and State	Income taxes				Miscellaneous internal revenue			
	1925	1926	1927	1928	1925	1926	1927	1928
<b>Total</b> .....	<b>1,761,659</b>	<b>1,974,104</b>	<b>2,219,952</b>	<b>2,174,573</b>	<b>822,481</b>	<b>861,896</b>	<b>845,781</b>	<b>615,962</b>
<b>New England</b> .....	<b>154,150</b>	<b>157,744</b>	<b>186,201</b>	<b>160,035</b>	<b>34,801</b>	<b>30,845</b>	<b>15,157</b>	<b>11,033</b>
Maine.....	7,683	8,591	8,594	8,086	1,243	1,192	1,902	383
New Hampshire.....	3,222	3,013	3,007	3,246	1,237	1,113	496	749
Vermont.....	3,002	2,661	2,656	2,221	339	740	164	82
Massachusetts.....	99,444	100,017	105,269	98,530	10,465	28,830	9,481	6,888
Rhode Island.....	14,234	14,461	12,905	13,572	2,131	2,435	803	1,198
Connecticut.....	26,566	29,001	33,800	34,381	10,366	6,335	2,311	1,733
<b>Middle Atlantic</b> .....	<b>752,011</b>	<b>837,153</b>	<b>953,516</b>	<b>946,498</b>	<b>263,387</b>	<b>261,265</b>	<b>174,290</b>	<b>159,632</b>
New York.....	496,710	569,505	649,299	646,604	161,876	164,221	105,780	106,381
New Jersey.....	66,137	72,252	81,301	82,956	44,063	40,119	32,662	22,644
Pennsylvania.....	189,164	195,396	222,916	216,938	57,428	56,922	35,848	29,805
<b>East North Central</b> .....	<b>406,210</b>	<b>462,075</b>	<b>518,347</b>	<b>514,120</b>	<b>208,452</b>	<b>215,263</b>	<b>121,415</b>	<b>104,411</b>
Ohio.....	95,526	109,071	117,649	113,764	46,971	46,685	29,782	25,923
Indiana.....	23,703	24,923	28,406	27,246	14,744	14,715	7,709	7,449
Illinois.....	159,416	176,861	194,971	201,135	42,416	38,859	22,408	20,585
Michigan.....	100,868	122,570	141,639	128,484	94,858	103,059	56,360	45,495
Wisconsin.....	26,698	28,650	35,682	43,492	9,463	10,945	5,156	4,659
<b>West North Central</b> .....	<b>97,960</b>	<b>112,471</b>	<b>120,760</b>	<b>114,840</b>	<b>32,027</b>	<b>30,335</b>	<b>18,659</b>	<b>16,845</b>
Minnesota.....	22,427	25,384	26,219	26,105	5,556	5,514	2,224	1,740
Iowa.....	10,717	11,112	11,726	11,810	2,837	2,840	941	672
Missouri.....	42,468	49,603	55,903	51,979	18,994	18,325	14,392	13,106
North Dakota.....	608	778	740	748	257	240	58	40
South Dakota.....	859	858	737	679	340	257	86	67
Nebraska.....	5,661	6,173	5,808	5,333	1,804	1,286	370	400
Kansas.....	15,141	15,563	19,627	18,686	2,239	1,873	588	621
<b>South Atlantic</b> .....	<b>117,900</b>	<b>148,138</b>	<b>168,817</b>	<b>154,688</b>	<b>210,620</b>	<b>242,185</b>	<b>263,269</b>	<b>281,284</b>
Delaware.....	6,564	9,540	14,319	20,011	1,753	2,092	1,056	1,006
District of Columbia.....	12,481	15,191	16,020	16,361	1,950	1,875	2,207	2,025
Maryland.....	25,111	25,646	29,627	28,254	5,949	4,824	2,852	3,057
Virginia.....	15,304	17,827	20,781	21,891	33,324	42,959	58,380	61,804
West Virginia.....	12,044	11,654	15,750	13,352	4,431	3,975	2,606	2,530
North Carolina.....	15,878	17,678	19,205	20,351	151,085	174,726	186,447	204,064
South Carolina.....	5,788	4,176	3,826	3,737	836	721	250	161
Georgia.....	12,614	12,437	13,699	13,550	2,587	1,795	678	633
Florida.....	12,119	33,989	35,590	17,181	8,705	9,218	8,893	6,304
<b>East South Central</b> .....	<b>37,868</b>	<b>37,840</b>	<b>43,764</b>	<b>39,903</b>	<b>20,744</b>	<b>19,685</b>	<b>16,172</b>	<b>14,052</b>
Kentucky.....	14,325	14,639	16,258	15,001	13,839	12,206	11,423	9,010
Tennessee.....	11,770	11,398	13,723	13,351	5,176	5,860	4,089	4,485
Alabama.....	8,288	8,276	10,458	8,178	1,152	1,179	525	470
Mississippi.....	3,483	3,527	3,325	2,674	527	440	135	87
<b>West South Central</b> .....	<b>55,795</b>	<b>69,643</b>	<b>86,670</b>	<b>82,851</b>	<b>13,075</b>	<b>12,572</b>	<b>4,645</b>	<b>4,142</b>
Louisiana.....	12,396	12,583	15,396	12,181	4,836	3,765	2,083	2,034
Texas.....	28,886	36,879	42,964	45,659	5,788	6,000	1,995	1,673
Oklahoma.....	9,820	15,789	23,257	20,188	1,801	2,265	362	327
Arkansas.....	4,693	4,392	5,053	4,224	649	542	205	108
<b>Mountain</b> .....	<b>22,501</b>	<b>22,561</b>	<b>24,892</b>	<b>24,268</b>	<b>4,931</b>	<b>11,720</b>	<b>3,199</b>	<b>1,184</b>
Montana.....	1,885	1,968	2,376	2,825	564	7,133	1,955	154
Wyoming.....	1,450	1,365	1,830	2,057	240	221	55	110
Colorado.....	11,741	11,976	12,657	11,453	2,474	2,855	817	427
New Mexico.....	733	635	658	772	121	104	22	17
Arizona.....	1,417	1,574	1,673	1,737	291	409	64	183
Utah.....	3,386	3,463	3,769	3,663	761	601	154	108
Nevada.....	452	451	501	690	166	135	83	113
Idaho.....	1,437	1,129	1,428	1,071	312	262	49	73
<b>Pacific</b> .....	<b>112,003</b>	<b>120,269</b>	<b>131,699</b>	<b>132,408</b>	<b>32,939</b>	<b>36,485</b>	<b>28,556</b>	<b>23,658</b>
Washington.....	12,334	12,157	13,192	12,156	2,696	2,047	662	583
Oregon.....	6,784	6,399	6,198	5,815	1,440	1,061	514	294
California.....	92,885	101,713	112,309	114,437	28,893	33,347	27,180	22,781
<b>Philippine Islands</b> .....					819	789	377	388
<b>Hawaii</b> .....	<b>5,067</b>	<b>6,061</b>	<b>5,144</b>	<b>6,112</b>	<b>683</b>	<b>736</b>	<b>187</b>	<b>132</b>
<b>Alaska</b> .....	<b>194</b>	<b>151</b>	<b>143</b>	<b>149</b>	<b>24</b>	<b>17</b>	<b>4</b>	<b>1</b>

Source: Annual Report of the Commissioner of Internal Revenue



## No. 194.—PERSONAL AND CORPORATION TAX RETURNS: SUMMARY

NOTE.—Under the various revenue laws the following individuals were required to file personal returns: In 1913 to 1916, those with net income of \$3,000 and over, 1917 to 1924, \$1,000 and over; 1925 and 1926, \$1,500 and over; or in the case of married persons living with husband or wife filing a joint return, \$2,000 in 1917 to 1923, \$2,500 in 1924, and \$3,500 in 1925 and 1926. All income tax data include Alaska and Hawaii

Calen- dar year	Number of returns			Net income		Tax yield				
	Per- sonal	Corporation		Personal	Corpo- ration	Personal			Corporation	
		Report- ing net income	Report- ing no net income			Total	Normal	Surtax	Income tax	War and excess profits
Millions of dollars					Thousands of dollars					
1913----	357, 598	188, 866	128, 043	1 3, 900	4, 714	28, 254	12, 728	15, 525	2 43, 128	-----
1914----	357, 515	174, 205	125, 240	4, 000	3, 940	41, 046	16, 559	24, 487	39, 145	-----
1915----	336, 652	190, 911	175, 532	4, 600	5, 310	67, 944	23, 996	43, 948	56, 994	-----
1916----	437, 036	206, 984	134, 269	6, 298	8, 766	173, 387	51, 441	121, 946	171, 805	-----
1917 <sup>1</sup> ----	3, 472, 890	232, 079	119, 347	13, 652	10, 730	691, 493	156, 897	534, 596	503, 698	1, 638, 748
1918----	4, 425, 114	202, 061	115, 518	15, 925	8, 362	1, 127, 722	476, 433	651, 289	653, 198	2, 505, 566
1919----	5, 332, 760	209, 634	110, 564	19, 860	9, 411	1, 269, 630	468, 105	801, 525	743, 536	1, 431, 806
1920----	7, 259, 944	203, 233	142, 362	23, 736	7, 903	1, 075, 054	478, 250	596, 804	636, 508	988, 726
1921----	6, 662, 176	171, 239	185, 158	19, 577	4, 336	808, 059	411, 323	396, 736	386, 444	335, 132
1922----	6, 787, 451	212, 535	170, 348	21, 336	6, 964	861, 057	355, 410	474, 581	775, 310	8, 466
1923----	7, 698, 321	233, 339	165, 594	24, 778	8, 322	661, 666	283, 791	348, 689	637, 107	-----
1924----	7, 369, 788	236, 389	181, 032	25, 656	7, 587	670, 265	257, 795	437, 540	681, 550	-----
1925----	4, 171, 051	252, 334	177, 738	21, 895	9, 584	673, 455	216, 360	432, 553	1, 170, 331	-----
1926----	4, 138, 092	258, 134	197, 186	21, 959	9, 673	673, 471	200, 599	448, 330	1, 229, 797	-----

<sup>1</sup> Determined on the basis of the number of returns filed and the average net income in each class.

<sup>2</sup> Includes excise tax, \$10,071,000, under act of Aug. 5, 1909

<sup>3</sup> Figures for 1915 contain approximately 30,000 returns which properly belong in 1914

<sup>4</sup> In addition to the personal and corporation taxes shown for 1917 there was a war and excess-profits tax on partnerships amounting to \$103,888,000.

<sup>5</sup> Includes war and excess-profits tax, \$101,250,000

<sup>6</sup> Includes tax on capital net gain from sale of assets held for more than 2 years. In 1924 to 1926 figures represent net tax after deducting tax credits of 12½ per cent on capital net loss from sale of assets held over 2 years and 25 per cent on earned net income.

Source: Statistics of Income, Report of Commissioner of Internal Revenue.

## No. 195.—PERSONAL AND CORPORATION INCOME TAX RETURNS: BY STATES AND TERRITORIES, 1926

State or Territory	Number of returns		Net income in thousands of dollars		Tax in thousands of dollars			Total tax, per cent of total United States
	Personal	Corporation	Personal	Corporation	Personal	Corporation	Total	
Total-----	4,138,092	455,320	21,958,506	9,673,403	732,471	1,229,797	1,962,268	100.00
Alabama-----	28,540	4,133	136,523	40,662	2,449	4,861	7,310	.37
Alaska-----	( <sup>1</sup> )	156	( <sup>1</sup> )	674	( <sup>1</sup> )	66	66	.01
Arizona-----	10,509	1,505	41,717	8,813	499	1,011	1,510	.08
Arkansas-----	19,363	2,634	84,661	18,597	1,481	2,123	3,604	.18
California-----	315,344	21,258	1,571,674	426,839	46,238	54,319	100,557	5.13
Colorado-----	35,110	6,580	154,805	62,872	2,959	7,812	10,771	.55
Connecticut-----	31,449	6,280	433,777	124,029	13,751	15,646	29,397	1.50
Delaware-----	9,301	1,483	70,544	82,896	5,101	10,815	15,916	.81
District of Columbia-----	40,024	1,888	198,056	65,987	5,527	8,671	14,198	.72
Florida-----	56,109	10,853	322,601	82,638	10,416	9,625	20,041	1.02
Georgia-----	36,744	5,281	171,146	61,824	2,888	7,564	10,452	.53
Hawaii-----	9,146	633	42,950	25,849	1,096	3,356	4,492	.23
Idaho-----	11,617	2,282	39,883	7,707	184	837	1,021	.05
Illinois-----	374,725	23,340	1,995,011	901,782	64,214	116,559	180,773	9.21
Indiana-----	77,126	11,080	358,625	129,344	9,935	15,748	25,683	1.31
Iowa-----	49,476	8,843	203,015	56,751	2,918	6,586	9,504	.49
Kansas-----	32,732	5,280	153,673	131,459	2,756	17,017	19,773	1.01
Kentucky-----	32,821	5,479	169,101	77,203	3,226	9,612	12,838	.65
Louisiana-----	38,998	5,657	185,479	62,497	3,312	7,554	10,866	.55
Maine-----	19,709	3,443	107,979	32,629	3,420	3,909	7,329	.37
Maryland-----	67,160	5,621	374,759	118,166	11,517	14,934	26,451	1.35
Massachusetts-----	224,042	17,639	1,147,576	382,932	37,116	48,500	85,616	4.36
Michigan-----	176,804	13,553	905,815	672,422	32,408	88,183	120,591	6.15
Minnesota-----	64,227	10,965	296,414	130,212	6,475	16,155	22,630	1.15
Mississippi-----	17,196	2,113	64,860	13,166	644	1,435	2,079	.11

<sup>1</sup> Included with Washington.

**No. 195.—PERSONAL AND CORPORATION INCOME TAX RETURNS: BY STATES AND TERRITORIES, 1926—Continued**

State or Territory	Number of returns		Net income in thousands of dollars		Tax in thousands of dollars			Total tax, per cent of total United States
	Personal	Corporation	Personal	Corporation	Personal	Corporation	Total	
Missouri.....	99,509	16,145	512,801	267,510	13,497	33,948	47,445	2.42
Montana.....	16,191	3,866	59,290	13,937	512	1,519	2,081	.11
Nebraska.....	33,532	4,594	134,154	27,408	1,331	3,122	4,503	.23
Nevada.....	4,797	969	16,766	2,881	196	316	512	.03
New Hampshire.....	15,276	1,183	66,744	9,293	1,201	1,065	2,266	.12
New Jersey.....	176,320	17,480	1,032,208	342,090	32,858	42,830	75,688	3.86
New Mexico.....	6,513	1,108	24,632	3,708	228	395	623	.03
New York.....	753,044	89,617	4,984,020	2,770,885	247,164	356,409	603,573	30.76
North Carolina.....	35,332	6,450	153,232	102,879	3,298	13,017	16,415	.84
North Dakota.....	9,881	3,445	33,169	6,574	180	422	602	.03
Ohio.....	231,196	23,475	1,146,496	530,119	32,839	66,541	99,380	5.07
Oklahoma.....	37,497	5,835	223,037	84,301	8,135	10,327	18,462	.94
Oregon.....	30,955	6,144	135,030	26,867	2,175	2,993	5,170	.26
Pennsylvania.....	397,575	24,173	2,138,169	941,819	76,887	122,361	199,248	10.15
Rhode Island.....	26,362	2,566	155,051	43,396	5,546	5,477	11,023	.56
South Carolina.....	13,809	3,822	53,060	15,325	420	1,693	2,113	.11
South Dakota.....	12,414	2,872	38,153	3,437	209	237	466	.02
Tennessee.....	35,495	4,955	175,714	66,927	3,632	8,177	11,809	.60
Texas.....	111,438	11,970	547,562	199,524	12,682	24,863	37,545	1.91
Utah.....	13,568	3,083	53,832	18,566	629	2,183	2,812	.14
Vermont.....	8,646	1,096	42,209	10,429	821	1,230	2,051	.10
Virginia.....	37,797	6,358	176,025	135,859	3,495	17,284	20,779	1.06
Washington.....	21,950	10,748	224,592	63,600	2,801	7,286	10,087	.51
West Virginia.....	32,544	5,142	141,397	76,152	2,304	9,415	11,719	.60
Wisconsin.....	99,251	13,827	407,043	187,004	8,418	23,193	31,611	1.61
Wyoming.....	8,930	1,418	31,751	5,233	263	534	797	.04

<sup>1</sup> Includes Alaska

**No. 196.—GROSS RECEIPTS OF CORPORATIONS: BY INDUSTRIAL GROUPS**

NOTE.—Gross receipts are from all sources (except interest on Federal, State, and municipal bonds and, in 1920 and 1921, also dividends on capital stock of domestic corporations), sales being given on gross basis. Data are not comparable with "total income" of individuals shown in other tables. See also Table 198.

[In millions of dollars]

Industrial group	1920	1921	1922	1923	1924	1925	1926
Total.....	118,206	91,249	100,921	118,584	119,230	134,280	142,129
Agriculture and related industries.....	725	676	705	774	810	794	814
Mining and quarrying.....	6,151	3,889	3,695	4,863	4,849	4,925	4,548
Manufacturing, total.....	56,049	38,442	44,683	56,221	53,911	60,830	62,495
Foods, beverages, and tobacco.....	12,285	8,270	8,865	10,078	11,847	13,400	13,407
Textiles and textile products.....	8,205	5,686	6,795	7,857	7,189	7,717	7,753
Leather and leather products.....	1,894	1,418	1,464	1,507	1,507	1,515	1,661
Rubber and rubber goods.....	1,038	638	943	1,079	1,122	1,469	1,600
Lumber and wood products.....	3,812	1,847	2,402	2,975	2,835	2,968	3,069
Paper, pulp, and products.....	1,799	1,004	1,162	1,444	1,364	1,491	1,652
Printing and publishing.....	1,761	1,722	1,847	1,985	2,166	2,282	2,547
Chemicals and allied substances.....	5,565	3,879	5,711	6,108	5,890	7,065	8,090
Stone, clay, and glass products.....	1,316	954	1,172	1,364	1,383	1,502	1,665
Metals and metal products.....	15,104	9,805	9,976	16,601	15,939	19,110	18,454
All other manufacturing.....	4,369	3,220	4,545	5,133	2,668	2,311	2,527
Construction.....	2,238	1,773	1,766	2,224	2,210	2,306	2,816
Transportation and public utilities.....	9,153	9,001	9,754	10,527	10,176	11,881	14,764
Trade.....	31,513	27,344	28,677	32,274	35,110	39,847	40,938
Public service.....	1,953	1,755	2,216	2,419	2,632	2,839	3,360
Finance, banking, insurance, etc.....	8,890	7,551	8,932	8,464	9,072	10,517	12,300
Predominant branch not ascertainable.....	1,133	818	491	799	454	322	45
Nominal concerns.....	231	(?)	(?)	(?)	(?)	-----	-----

<sup>1</sup> Gross receipts incomplete due to the fact that railroads and other public utility corporations to a large extent report merely net income.

<sup>2</sup> Less than \$500,000.

## No. 197.—CORPORATION DIVIDENDS: AS REPORTED IN CORPORATION TAX RETURNS

[All figures in millions and tenths of millions of dollars]

Industrial group	1923		1924		1925		1926	
	Cash dividends	Stock dividends	Cash dividends	Stock dividends	Cash dividends	Stock dividends	Cash dividends	Stock dividends
<b>Total</b> .....	4, 189. 1	891 3	4, 338 8	510 5	5, 189 5	544 4	5, 945. 3	757. 6
Agriculture and related industries.....	27 5	6 9	27 9	1 8	30 9	4 1	32 3	1 6
Mining and quarrying.....	300 6	42 0	255 3	11 6	335 1	3. 9	402. 7	19 5
Manufacturing, total.....	2, 005 9	480 6	1, 883 0	260 1	2, 223 8	267 4	2, 544 2	465. 4
Foods, beverages, and tobacco.....	251 2	54 1	273 2	25 2	312 2	72. 1	327. 2	41. 1
Textiles and textile products.....	218 6	87 6	183 0	27. 9	186 2	26 8	185 3	25. 5
Leather and leather products.....	36 2	12 8	30 3	4 9	38 8	10 0	33 3	10. 2
Rubber and rubber goods.....	15 7	2 3	16 0	1 2	33 1	1 2	41 3	1. 2
Lumber and wood products.....	127 9	56 0	105 2	22 3	119 7	13. 7	124 3	15. 1
Paper, pulp, and products.....	60 3	10 2	39 2	3 8	64. 3	3 6	56 2	6. 1
Printing and publishing.....	74 6	8 5	81 0	19 0	99 6	14. 4	121 9	6. 8
Chemicals and allied substances.....	381 2	32 9	342 2	14 3	477 7	28. 7	544. 3	91. 6
Stone, clay, and glass products.....	59 8	37 7	66 6	19 8	79 1	29 2	101. 5	13 7
Metals and metal products.....	573 6	127 4	658 8	109 7	714. 0	60 3	889. 9	239. 6
All other manufacturing.....	207 1	51. 1	87 5	12 1	99 2	7. 5	119. 0	12. 5
Construction.....	45 6	18. 2	38 0	6 1	70 0	11 6	55 3	10. 1
Transportation and public utilities.....	662 7	75 1	926 0	64. 3	1, 006 8	77 2	1, 276 7	68. 1
Trade.....	393. 9	164 8	418 8	94 6	506 3	90 5	525. 3	80. 2
Public service.....	76 9	18 5	85 1	10 6	107 9	9 5	125. 2	12 9
Finance—banking, insurance, etc.....	632. 9	79 7	694 2	58 5	896 8	78. 6	978 6	100. 5
Predominant branch not ascertainable.....	23 1	5 6	11 5	2 9	11 8	1. 7	-----	-----
Nominal concerns.....	(1)	-----	1	-----	(1)	(1)	4. 9	1. 8

<sup>1</sup> Less than \$50,000

Source Statistics of Income, Report of the Commissioner of Internal Revenue, Treasury Department.

## No. 198.—CORPORATION INCOME TAX RETURNS: SOURCES OF INCOME AND NATURE OF DEDUCTIONS, TOTALS 1923 TO 1926, AND BY CLASSES OF CORPORATIONS, 1926

[All figures in millions or millions and tenths of millions of dollars]

	Aggregate				Manufacturing			
	1923 <sup>1</sup>	1924	1925	1926	Total	Food	Textiles	Leather
<b>Receipts, total</b> .....	119, 020	119, 747	134, 780	142, 629	62, 584	13, 484. 4	7, 763 8	1, 662. 2
Gross sales.....	96, 685	97, 298	106, 832	106, 206	59, 863	13, 199 4	7, 592 9	1, 629. 7
Gross profits from sales <sup>1</sup> .....	22, 980	21, 407	22, 117	23, 725	14, 811	2, 875 1	1, 329 3	284. 8
Miscellaneous income.....	21, 003	21, 017	26, 253	34, 417	2, 204	223 4	161 3	30 0
Not subject to tax—								
Dividends of other domestic corporations.....	870	915	1, 176	1, 505	428	53. 2	8 6	1. 6
Interest on Federal, State, and municipal bonds.....	456	517	520	500	89	8. 4	11. 0	. 9
<b>Disbursements, total</b> .....	111, 386	112, 952	125, 464	133, 119	58, 359	12, 925. 7	7, 624 7	1, 613. 3
Cost of goods sold.....	73, 705	75, 891	84, 716	82, 484	45, 051	10, 824. 3	6, 263 6	1, 344. 9
Interest paid.....	3, 278	3, 445	3, 617	3, 989	657	132. 3	76 1	13. 0
Depreciation, amortization, and depletion.....	3, 116	3, 187	3, 330	3, 841	1, 757	199. 1	141. 6	18. 5
Miscellaneous expense.....	31, 287	30, 429	33, 801	42, 805	894	1, 770. 0	1, 143. 4	236. 9
<b>Net profits</b> .....	7, 634	6, 795	9, 316	9, 510	4, 225	558. 7	139. 1	48. 9
Deduct tax-exempt items (above).....	1, 326	1, 432	1, 695	2, 005	517	61. 6	19. 6	2 5
<b>Net income</b> .....	6, 308	5, 363	7, 621	7, 505	3, 708	497. 1	119 5	46. 4
Deduct prior year loss.....	578	220	243	236	97	9. 5	9. 8	2 8
<b>Net income, deducting prior year loss</b> .....	5, 730	5, 143	7, 378	7, 269	3, 611	487. 6	109. 7	43. 6
<b>Total tax</b> .....	937	882	1, 170	1, 230	585	77. 1	39. 8	9. 4

<sup>1</sup> Difference between gross sales and cost of goods shown below.

**No. 198.—CORPORATION INCOME TAX RETURNS: SOURCES OF INCOME AND NATURE OF DEDUCTIONS, TOTALS, 1923 TO 1926, AND BY CLASSES OF CORPORATIONS, 1926—Continued**

[All figures in millions or millions and tenths of millions of dollars]

	Manufacturing—Continued							
	Rubber	Lumber	Paper	Printing	Chemicals	Stone, etc.	Metal	All other
Receipts, total.....	1,600.7	3,071.9	1,653.8	2,552.6	8,103.0	1,668.5	18,492.9	2,529.7
Gross sales.....	1,533.5	2,938.0	1,605.7	2,014.2	7,332.9	1,618.9	17,969.7	2,427.7
Gross profits from sales <sup>1</sup> .....	283.9	683.0	419.3	733.3	2,438.1	537.1	4,865.4	731.9
Miscellaneous income.....	30.7	120.9	38.0	506.1	558.8	40.9	424.5	77.8
Not subject to tax—								
Dividends of other domestic corporations.....	36.1	9.9	8.5	25.2	198.7	5.1	59.6	21.1
Interest on Federal, State, and municipal bonds.....	4	3.1	1.6	5.1	12.6	3.6	39.1	3.1
Disbursements, total.....	1,551.5	2,955.1	1,537.6	2,349.8	7,175.8	1,486.7	16,783.4	2,355.3
Cost of goods sold.....	1,249.7	2,254.9	1,186.4	1,280.8	4,894.8	1,081.7	12,974.3	1,695.7
Interest paid.....	29.4	49.4	28.1	21.5	92.4	15.9	174.1	21.5
Depreciation, amortization, and depletion.....	30.2	135.3	55.2	54.4	485.6	66.5	520.1	50.7
Miscellaneous expense.....	242.2	515.5	267.9	990.1	1,703.0	322.6	3,114.9	557.4
Net profits.....	49.2	116.8	116.2	202.8	927.2	181.8	1,709.5	174.4
Deduct tax-exempt items (above).....	36.5	13.0	10.1	30.3	211.3	8.7	98.6	24.2
Net income.....	12.7	103.8	106.1	172.5	715.9	173.1	1,610.9	150.2
Deduct prior year loss.....	8	5.5	3.5	3.8	18.9	2.4	30.5	9.6
Net income deducting prior year loss.....	11.9	98.3	102.6	168.7	697.0	170.7	1,580.4	140.6
Total tax.....	4.9	21.9	15.6	25.9	102.9	25.5	237.1	24.3

  

	Agriculture	Mining	Construction	Transportation and public utilities	Trade	Public service	Finance	Nominal concerns
Receipts, total.....	865.4	4,561.5	2,819.2	14,791.5	40,950.5	3,362.5	12,649.9	45.2
Gross sales.....	714.4	3,837.8	2,839.1	13,402.6	39,402.6	3,362.5	12,649.9	45.2
Gross profits from sales <sup>1</sup> .....	260.4	1,224.2	451.3	7,006.2	7,006.2	3,362.5	12,649.9	45.2
Miscellaneous income.....	141.1	633.9	414.9	14,316.8	1,480.8	3,340.5	11,838.7	44.0
Not subject to tax—								
Dividends of other domestic corporations.....	7.0	76.0	12.1	447.5	54.2	19.8	461.0	1.0
Interest on Federal, State, and municipal bonds.....	9	13.8	3.1	27.2	12.9	2.2	350.2	.2
Disbursements, total.....	842.2	4,199.4	2,695.0	12,713.5	40,048.8	3,183.2	11,029.8	47.6
Cost of goods sold.....	464.0	2,613.6	1,957.7	12,397.4	32,397.4	3,183.2	11,029.8	47.6
Interest paid.....	30.5	96.6	31.7	1,266.8	245.5	80.4	1,618.3	1.9
Depreciation, amortization, and depletion.....	45.5	507.6	55.4	744.8	246.1	231.0	252.7	1.0
Miscellaneous expense.....	302.2	981.6	650.2	10,741.9	7,159.8	2,871.8	19,158.8	44.7
Net profits.....	23.2	363.1	124.1	2,077.9	901.6	179.3	1,620.1	42.5
Deduct tax-exempt items (above).....	8.0	89.8	15.2	474.7	67.1	22.1	811.2	1.2
Net income.....	15.2	273.3	108.9	1,603.2	834.6	157.2	808.9	3.7
Deduct prior year loss.....	4.9	25.5	9.2	15.7	34.6	11.2	37.3	.3
Net income deducting prior year loss.....	10.3	246.8	99.7	1,587.5	799.9	146.0	771.6	4.0
Total tax.....	8.2	57.3	19.1	228.7	140.5	31.0	160.2	.9

<sup>1</sup> Difference between gross sales and cost of goods shown below

<sup>2</sup> Includes for a limited number of returns the cost of securities purchased for customers

<sup>3</sup> Includes special nonexpense deductions of life insurance companies.

<sup>4</sup> Deficit

Source: Statistics of Income, Report of the Commission of Internal Revenue, Treasury Department.

# No. 199.—CORPORATION INCOME TAX RETURNS: CORPORATIONS DISTRIBUTED ACCORDING TO SIZE OF NET INCOME, BY INDUSTRIAL GROUPS

[All money figures in thousands of dollars]

## ALL CONCERNS

Income class	Num- ber	Net income	Num- ber	Net income	Num- ber	Net income	Num- ber	Net income
	1922 <sup>1</sup>		1923 <sup>1</sup>		1924 <sup>1</sup>		1925 <sup>1</sup>	
Reporting net income.....	212,535	6,963,811	233,339	8,321,529	236,389	7,586,652	252,334	9,583,634
Less than \$10,000.....	160,548	398,829	175,111	440,400	180,275	440,136	188,848	467,453
\$10,000 to \$100,000.....	43,123	1,279,204	48,022	1,468,860	47,268	1,404,772	52,747	1,621,589
\$100,000 to \$1,000,000.....	8,019	2,159,112	9,180	2,421,598	7,945	2,083,697	9,626	2,520,788
\$1,000,000 to \$5,000,000.....	725	1,444,773	858	1,695,717	739	1,447,837	917	1,876,243
\$5,000,000 and over.....	120	1,681,893	168	2,294,954	162	2,210,210	196	3,097,611
Reporting deficit.....	170,348	2,183,776	165,594	2,013,554	181,032	2,223,926	177,738	2,192,628

  

1926								
Income class	Total, all concerns <sup>1</sup>		Agriculture		Mining and quarrying		Manufacturing, total	
	Num- ber	Net income	Num- ber	Net income	Num- ber	Net income	Num- ber	Net income
Reporting net income.....	258,134	9,673,403	4,698	70,812	6,008	455,798	55,094	4,494,790
Less than \$10,000.....	197,373	465,772	3,973	8,393	4,016	8,394	35,174	92,961
\$10,000 to \$100,000.....	50,461	1,542,734	645	18,322	1,495	51,536	15,155	512,720
\$100,000 to \$1,000,000.....	9,203	2,126,817	76	20,293	427	119,035	4,218	1,166,015
\$1,000,000 to \$5,000,000.....	883	1,769,643	3	23,804	55	125,196	441	876,078
\$5,000,000 and over.....	214	3,468,407	1		13	151,637	106	1,847,016
Reporting deficit.....	197,186	2,168,710	5,990	2,55,665	13,246	2,183,474	38,150	2,786,637
Income class	Food		Textiles		Leather		Rubber	
	Num- ber	Net income	Num- ber	Net income	Num- ber	Net income	Num- ber	Net income
Reporting net income.....	9,239	592,440	7,708	314,649	1,413	73,859	339	37,501
Less than \$10,000.....	6,407	16,344	5,199	13,192	902	2,438	194	457
\$10,000 to \$100,000.....	2,265	72,603	1,938	65,779	388	12,642	95	3,557
\$100,000 to \$1,000,000.....	490	128,967	534	144,612	116	31,751	45	16,176
\$1,000,000 to \$5,000,000.....	59	132,340	36	91,066	6	27,028	4	17,312
\$5,000,000 and over.....	18	242,196	1		1		1	
Reporting deficit.....	6,266	2,95,309	5,728	2,195,164	1,078	2,27,436	341	2,24,764
Income class	Lumber		Paper		Printing		Chemicals	
	Num- ber	Net income	Num- ber	Net income	Num- ber	Net income	Num- ber	Net income
Reporting net income.....	4,591	172,972	1,365	120,480	6,931	203,507	4,076	785,155
Less than \$10,000.....	2,728	8,085	649	2,006	5,140	12,292	2,363	5,750
\$10,000 to \$100,000.....	1,494	50,904	519	15,193	1,471	46,058	1,209	44,586
\$100,000 to \$1,000,000.....	354	85,266	175	51,026	291	73,393	412	122,123
\$1,000,000 to \$5,000,000.....	14	29,617	20	38,720	26	43,353	68	134,215
\$5,000,000 and over.....			2	10,515	3	27,411	24	478,481
Reporting deficit.....	3,271	2,69,196	659	2,14,362	3,614	2,31,006	3,210	2,69,279
Income class	Stone, etc		Metal		All other manu- facturing		Construction	
	Num- ber	Net income	Num- ber	Net income	Num- ber	Net income	Num- ber	Net income
Reporting net income.....	2,782	195,166	11,989	1,803,444	4,681	195,637	10,075	162,569
Less than \$10,000.....	1,670	4,845	6,720	19,478	3,202	8,074	7,928	19,400
\$10,000 to \$100,000.....	835	28,595	3,761	130,869	1,180	39,834	1,870	55,695
\$100,000 to \$1,000,000.....	223	61,310	1,305	382,177	273	69,224	265	58,085
\$1,000,000 to \$5,000,000.....	30	66,831	155	310,334	23	35,047	10	13,907
\$5,000,000 and over.....	4	33,585	48	960,586	3	43,458	2	15,842
Reporting deficit.....	1,844	2,22,112	8,065	2,192,574	4,074	2,45,494	6,695	2,53,621
Income class	Transportation and other pub- lic utilities		Trade		Public service		Finance	
	Num- ber	Net income	Num- ber	Net income	Num- ber	Net income	Num- ber	Net income
Reporting net income.....	15,444	1,723,399	71,403	1,165,558	17,755	260,981	76,819	1,336,893
Less than \$10,000.....	12,420	22,598	56,952	143,376	14,601	30,008	61,509	139,990
\$10,000 to \$100,000.....	2,206	67,462	12,908	370,361	2,748	79,616	13,397	385,947
\$100,000 to \$1,000,000.....	610	193,405	1,440	336,915	379	90,633	1,785	441,950
\$1,000,000 to \$5,000,000.....	148	324,556	91	168,745	25	44,300	110	213,075
\$5,000,000 and over.....	60	1,115,378	12	146,161	2	16,424	18	155,931
Reporting deficit.....	9,656	2,120,174	41,802	2,330,998	14,502	2,103,772	53,614	2,528,032

<sup>1</sup> Including combination enterprises and inactive concerns not shown separately in 1926.<sup>2</sup> Deficit.<sup>3</sup> Classes grouped to conceal net income and identity of taxpayer.

Source: Statistics of Income, Report of Commissioner of Internal Revenue, Treasury Department.

**No. 200.—CORPORATION INCOME TAX RETURNS: BY STATES AND TERRITORIES, 1923 TO 1926**

[All figures in thousands of dollars]

State or Territory	Net income				Income tax			
	1923	1924	1925	1926	1923	1924	1925	1926
<b>Total.....</b>	<b>8,321,529</b>	<b>7,586,652</b>	<b>9,583,684</b>	<b>9,673,403</b>	<b>937,107</b>	<b>881,550</b>	<b>1,170,331</b>	<b>1,229,797</b>
Alabama.....	45,961	35,539	42,930	40,662	4,757	3,905	4,979	4,861
Alaska.....	937	541	572	674	97	53	60	66
Arizona.....	8,957	7,413	7,679	8,813	630	776	814	1,011
Arkansas.....	22,373	18,080	22,900	18,697	2,361	1,865	2,515	2,123
California.....	369,970	376,725	417,826	426,830	43,033	44,161	50,534	54,319
Colorado.....	60,491	60,846	60,448	62,872	6,183	7,024	7,077	7,812
Connecticut.....	120,935	103,181	125,093	124,029	13,183	11,848	14,887	15,646
Delaware.....	41,933	39,541	60,931	82,806	3,976	4,703	7,645	10,815
Dist. of Columbia.....	44,483	47,458	64,493	65,987	5,361	5,745	8,119	8,671
Florida.....	35,399	62,344	192,320	82,638	3,821	7,006	23,516	9,625
Georgia.....	63,751	50,162	67,081	61,824	7,024	5,536	7,700	7,564
Hawaii.....	27,706	31,530	22,148	25,849	3,037	3,626	2,791	3,396
Idaho.....	10,341	6,846	9,014	7,707	966	680	975	837
Illinois.....	752,650	706,054	851,833	901,782	82,679	82,468	105,692	116,559
Indiana.....	136,413	114,990	135,335	120,344	15,084	12,930	15,736	15,748
Iowa.....	57,437	49,732	56,259	56,751	5,843	5,285	6,302	6,586
Kansas.....	87,086	84,611	109,216	131,459	10,271	9,833	13,443	17,017
Kentucky.....	72,582	64,975	78,149	77,203	8,140	7,347	9,418	9,612
Louisiana.....	68,345	54,436	64,233	62,497	7,544	5,934	7,269	7,554
Maine.....	44,455	31,348	39,072	32,529	4,984	3,534	4,584	3,909
Maryland.....	90,326	83,493	103,665	118,166	11,349	9,847	12,753	14,934
Massachusetts.....	462,480	352,210	407,769	382,932	53,151	40,796	49,269	48,500
Michigan.....	521,025	497,940	762,997	672,422	60,729	59,869	96,056	88,183
Minnesota.....	116,711	111,845	151,886	130,212	12,604	12,698	15,797	16,155
Mississippi.....	17,144	13,197	15,759	13,166	1,721	1,336	1,664	1,436
Missouri.....	227,323	225,899	272,484	267,510	25,782	26,039	33,347	33,948
Montana.....	8,515	8,949	11,841	13,937	876	811	1,196	1,519
Nebraska.....	25,020	26,914	30,391	27,498	2,555	2,703	3,318	3,622
Nevada.....	2,559	1,662	2,342	2,881	225	147	215	316
New Hampshire.....	12,673	8,636	10,262	9,293	1,404	930	1,169	1,065
New Jersey.....	273,897	260,526	331,624	342,090	31,255	30,690	39,209	42,830
New Mexico.....	2,975	2,874	3,173	3,708	270	271	311	395
New York.....	2,156,930	2,096,542	2,598,419	2,770,885	248,108	246,109	322,979	356,409
North Carolina.....	107,931	83,732	106,623	102,879	12,503	9,726	12,822	13,017
North Dakota.....	3,478	5,700	7,972	6,574	216	443	547	422
Ohio.....	538,602	442,810	564,543	530,119	57,443	51,131	69,182	66,541
Oklahoma.....	26,788	39,223	73,912	84,301	2,701	3,969	8,025	10,327
Oregon.....	35,419	29,088	28,652	26,867	3,631	3,107	3,154	2,995
Pennsylvania.....	902,479	780,528	891,120	941,819	104,619	87,512	111,207	122,361
Rhode Island.....	70,429	44,862	50,376	43,396	8,214	5,237	6,019	5,477
South Carolina.....	34,067	14,251	20,003	15,325	3,370	1,372	1,912	1,693
South Dakota.....	4,223	4,793	5,257	3,437	297	356	426	257
Tennessee.....	54,322	52,089	66,906	66,927	5,900	5,789	7,793	8,177
Texas.....	102,802	150,502	206,658	199,524	11,038	16,819	24,862	24,863
Utah.....	22,517	19,352	21,297	18,566	1,833	2,099	2,432	2,183
Vermont.....	12,163	9,133	10,238	10,429	1,261	1,011	1,218	1,230
Virginia.....	94,500	82,086	112,238	135,859	10,835	9,393	13,406	17,284
Washington.....	83,737	54,810	63,839	63,300	8,999	5,851	7,122	7,286
West Virginia.....	73,478	50,065	64,525	76,152	8,344	5,636	7,633	9,415
Wisconsin.....	150,218	132,285	171,193	187,044	16,357	15,113	20,325	23,193
Wyoming.....	5,323	4,412	8,188	5,233	513	391	884	534

Source. Statistics of Income, Report of the Commissioner of Internal Revenue, Treasury Department.

## No. 201.—CORPORATION INCOME TAX RETURNS: ANALYSIS FOR

State or Territory	Total number of corporations	Corporations reporting net income					
		Number reporting net income	Per cent of total number of corporations	Gross income	Expenses and deductions	Net income	Prior year loss deduction
				1,000 dollars	1,000 dollars	1,000 dollars	1,000 dollars
1916.....	341,253	206,984	60 65	32,531,097	23,785,188	8,765,909	-----
1917.....	351,426	232,079	66 04	79,540,005	68,809,645	10,730,360	-----
1918.....	317,579	202,061	63 63	79,706,659	71,345,148	8,361,511	-----
1919.....	320,198	209,634	65 47	88,261,006	78,849,588	9,411,418	-----
1920.....	345,595	208,233	59 81	93,824,225	85,921,570	7,902,655	-----
1921.....	356,387	171,239	48 05	60,051,123	55,715,075	4,336,048	-----
1922.....	352,883	212,535	55 51	80,331,680	73,367,869	6,963,811	501,780
1923.....	398,933	233,339	58 49	97,457,479	89,135,950	8,321,529	578,307
1924.....	417,421	236,389	56 63	97,158,996	89,572,344	7,586,652	219,727
1925.....	430,072	252,334	58 67	113,692,083	104,108,400	9,583,684	243,079
1926.....	455,320	258,134	56 69	118,022,117	108,348,714	9,673,403	235,852
Alabama.....	4,133	2,618	63 34	547,389	506,727	40,662	1,173
Alaska.....	156	73	46 79	7,283	6,609	674	78
Arizona.....	1,505	619	41 13	119,900	111,087	8,813	539
Arkansas.....	2,634	1,701	64 58	302,332	233,735	18,597	608
California.....	21,258	10,901	51 28	5,217,404	4,790,565	426,839	11,394
Colorado.....	6,580	3,071	46 67	853,412	790,540	62,872	1,342
Connecticut.....	6,280	3,771	60 05	1,683,366	1,559,337	124,029	3,136
Delaware.....	1,483	811	54 69	644,264	561,367	82,897	1,403
District of Columbia.....	1,888	1,077	57 04	596,909	530,922	65,987	460
Florida.....	10,853	4,702	43 32	818,159	735,521	82,638	5,328
Georgia.....	5,281	3,234	61 24	871,829	810,005	61,824	1,637
Hawaii.....	633	429	67 77	190,085	164,235	25,850	239
Idaho.....	2,282	991	43 43	146,791	139,084	7,707	279
Illinois.....	28,340	16,986	59 94	14,390,967	13,489,185	901,782	16,971
Indiana.....	11,080	6,889	62 18	1,806,530	1,677,186	129,344	3,295
Iowa.....	8,843	5,060	57 22	1,054,994	998,243	56,751	1,896
Kansas.....	5,280	3,253	61 61	1,109,432	977,973	131,459	1,363
Kentucky.....	5,479	3,403	62 11	933,658	856,455	77,203	1,692
Louisiana.....	5,657	3,277	57 93	930,187	867,690	62,497	2,370
Maine.....	3,443	1,972	57 28	461,039	428,510	32,529	1,197
Maryland.....	5,621	3,188	56 72	1,446,205	1,328,039	118,166	2,600
Massachusetts.....	17,639	9,752	55 29	5,288,583	4,905,650	382,933	10,229
Michigan.....	13,553	8,282	61 11	6,847,081	6,174,659	672,422	8,570
Minnesota.....	10,965	5,870	53 53	2,245,522	2,115,310	130,212	2,680
Mississippi.....	2,113	1,413	66 87	253,964	240,798	13,166	613
Missouri.....	16,145	9,160	56 74	3,783,126	3,515,616	267,510	4,024
Montana.....	3,866	1,686	43 61	162,015	148,078	13,937	691
Nebraska.....	4,594	2,815	61 28	607,508	580,010	27,498	841
Nevada.....	969	326	33 64	67,879	64,998	2,881	150
New Hampshire.....	1,183	715	60 44	147,800	138,508	9,292	473
New Jersey.....	17,480	10,413	59 57	4,105,186	3,763,096	342,090	11,667
New Mexico.....	1,108	471	42 51	57,108	53,401	3,707	208
New York.....	89,617	51,424	57 38	29,722,073	26,951,188	2,770,885	65,775
North Carolina.....	6,450	3,686	57 15	1,212,142	1,109,263	102,879	1,977
North Dakota.....	3,445	1,552	45 05	131,654	125,080	6,574	208
Ohio.....	23,475	14,266	60 77	7,211,098	6,380,979	530,119	18,896
Oklahoma.....	5,835	3,299	56 54	915,820	831,519	84,301	3,857
Oregon.....	6,144	3,003	48 88	503,667	476,800	26,867	922
Pennsylvania.....	24,173	13,820	57 17	10,157,118	9,215,299	941,819	19,079
Rhode Island.....	2,566	1,368	53 31	616,015	572,619	43,396	1,212
South Carolina.....	3,822	1,768	46 26	341,241	325,916	15,325	887
South Dakota.....	2,372	1,354	47 14	87,879	84,442	3,437	166
Tennessee.....	4,955	3,047	61 49	1,005,210	938,363	66,827	2,466
Texas.....	11,970	7,253	60 59	2,728,745	2,529,222	199,523	6,059
Utah.....	3,083	1,537	49 85	264,983	246,417	18,566	609
Vermont.....	1,096	699	63 78	145,614	135,184	10,430	369
Virginia.....	6,358	3,795	59 69	1,112,614	976,755	135,859	3,020
Washington.....	10,748	5,305	49 36	1,024,089	960,788	63,301	3,260
West Virginia.....	5,142	3,000	58 34	814,968	738,814	76,152	2,816
Wisconsin.....	13,827	8,253	59 69	2,268,270	2,081,227	187,043	4,827
Wyoming.....	1,418	776	54 72	60,932	55,700	5,232	301

<sup>1</sup> Figures for 1917 to 1922 include war and excess profits tax, as follows: 1917, \$1,638,748,000; 1918, \$2,505,566,000; 1919, \$1,431,806,000; 1920, \$988,726,000; 1921, \$335,132,000; 1922, \$8,466,000.

## UNITED STATES, 1916 TO 1926, AND BY STATES, 1926

Corporations reporting net income—Con.		Corporations reporting no net income					State or Territory
Income tax	Per cent of total tax	Number reporting no net income	Per cent of total number of corporations.	Gross income	Expenses and deductions	Deficit	
<i>1,000 dollars</i>				<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	
171,805	-----	134,269	39 25	2,796,534	3,453,438	656,904	1916.
12,142,446	-----	119,347	33 96	5,153,234	5,732,842	629,608	1917.
13,158,764	-----	115,518	36 37	6,757,622	7,447,304	689,772	1918.
12,175,342	-----	110,564	34.54	11,657,743	12,653,289	995,546	1919.
11,625,235	-----	142,362	41.19	24,381,338	26,410,762	2,029,424	1920.
1701,575	-----	185,158	51 95	31,198,150	35,076,369	3,878,219	1921.
1783,776	-----	170,348	44.49	20,588,835	22,782,611	2,193,776	1922.
937,107	-----	165,594	41 51	21,106,184	23,119,739	2,013,555	1923.
881,550	-----	181,032	43 37	22,070,497	24,294,423	2,223,926	1924.
1,170,331	-----	177,738	41 33	20,568,068	22,530,696	1,962,628	1925.
1,229,797	100 00	197,186	43 31	24,107,735	26,276,445	2,168,710	1926.
4,860	.40	1,515	36 66	123,285	133,235	9,950	Alabama.
66	01	83	53 21	1,901	2,281	380	Alaska.
1,011	08	886	58 87	29,687	34,842	5,155	Arizona.
2,123	17	933	35 42	91,264	101,661	10,397	Arkansas.
54,319	4 42	10,357	48 72	1,344,545	1,483,185	138,640	California.
7,812	.64	3,509	53 33	182,200	203,533	21,333	Colorado.
15,645	1.27	2,509	39 95	372,503	413,446	40,943	Connecticut.
10,815	.85	672	43 21	57,164	70,649	13,485	Delaware.
8,871	.71	811	42 96	68,254	75,988	7,734	District of Columbia.
9,025	.78	6,151	56 68	343,417	416,625	73,208	Florida.
7,564	.62	2,047	38 76	228,593	252,115	23,522	Georgia.
3,396	.28	204	32 23	18,314	19,981	1,667	Hawaii.
837	.07	1,291	56 57	50,174	56,394	6,220	Idaho.
116,559	9 48	11,354	40 06	2,238,434	2,398,122	159,688	Illinois.
15,748	1.28	4,191	37.82	371,233	404,649	33,416	Indiana.
6,586	.54	3,783	42 78	218,046	243,079	25,033	Iowa.
17,017	1.38	2,027	38 39	141,554	154,443	12,889	Kansas.
9,612	.78	2,076	37 89	194,012	208,483	14,471	Kentucky.
7,554	.61	2,380	42 07	312,137	338,337	26,200	Louisiana.
3,909	.32	1,471	42 72	99,757	110,222	10,465	Maine.
14,934	1.21	2,433	43 28	211,857	232,255	20,398	Maryland.
48,500	3 94	7,887	44 71	1,794,802	1,940,930	146,128	Massachusetts.
88,183	7 17	5,271	38 89	671,641	756,122	84,481	Michigan.
10,155	1 31	5,085	46 47	517,264	548,320	31,056	Minnesota.
1,435	.11	700	33 13	67,587	74,992	7,405	Mississippi.
33,948	2 76	6,985	43 26	704,211	755,233	51,022	Missouri.
1,519	.12	2,180	56 39	63,611	70,253	6,642	Montana.
3,122	.25	1,779	38 72	127,779	137,957	10,178	Nebraska.
316	.03	643	66 36	12,557	15,634	3,077	Nevada.
1,065	.09	468	39 56	81,240	89,292	8,052	New Hampshire.
42,830	3 48	7,067	40 43	701,615	769,165	67,550	New Jersey.
395	.03	637	57 49	15,787	19,455	3,668	New Mexico.
356,409	28 98	38,193	42 62	6,084,458	6,601,529	517,071	New York.
13,017	1 06	2,764	42 85	252,468	274,480	22,012	North Carolina.
422	.03	1,893	54 95	49,803	54,668	4,865	North Dakota.
66,541	5.41	9,209	39 23	1,469,759	1,582,882	113,123	Ohio.
10,328	.84	2,536	43 46	402,181	435,108	32,927	Oklahoma.
2,995	.24	3,141	51 12	197,205	218,446	21,241	Oregon.
122,361	9.95	10,353	42.83	1,730,616	1,881,002	150,386	Pennsylvania.
5,477	.45	1,198	46.69	252,858	275,498	22,640	Rhode Island.
1,693	.14	2,054	53 74	168,970	181,438	12,468	South Carolina.
257	.02	1,513	52 86	42,861	46,788	3,927	South Dakota.
8,178	.66	1,908	38 51	285,705	303,125	17,420	Tennessee.
24,863	2 02	4,717	39 41	473,996	526,187	52,191	Texas.
2,183	.18	1,546	50 15	99,779	109,674	9,895	Utah.
1,230	.10	397	36 22	45,470	49,648	4,178	Vermont.
17,284	1.41	2,563	40 31	202,865	220,254	17,389	Virginia.
7,286	.59	5,443	50 64	365,543	399,046	33,503	Washington.
9,415	.77	2,142	41 66	151,149	170,049	18,900	West Virginia.
23,193	1 89	5,574	40 31	355,778	392,410	36,632	Wisconsin.
534	.04	642	45 28	19,766	23,335	3,569	Wyoming.

Source: Statistics of Income, Report of the Commissioner of Internal Revenue, Treasury Department.



# No. 202.—CORPORATION INCOME TAX RETURNS: NUMBER, NET INCOME, AND TAX, BY INDUSTRIAL GROUPS

NOTE.—All money figures in thousands of dollars. Tax includes war and excess profits tax prior to 1923

Year	Corporations reporting net income			Corporations reporting no net income		Corporations reporting net income			Corporations reporting no net income	
	Number	Net income	Tax	Number	Deficit	Number	Net income	Tax	Number	Deficit
Agriculture and related industries						Mining and quarrying				
1918.....	4,406	52,664	12,742	3,481	22,317	5,524	567,777	191,365	5,137	71,473
1919.....	4,442	93,509	19,521	3,856	29,337	5,272	432,624	75,082	13,197	180,954
1920.....	3,874	71,480	17,170	5,312	66,140	6,933	702,074	174,596	10,601	176,505
1921.....	3,146	40,718	6,002	5,578	88,563	6,135	185,134	31,969	13,295	414,489
1922.....	4,000	62,901	6,622	5,092	56,091	4,360	286,437	31,400	10,963	280,456
1923.....	3,914	92,201	9,791	5,446	49,930	5,175	283,566	30,777	13,334	334,254
1924.....	4,530	64,230	6,733	5,228	62,498	4,893	240,142	28,889	13,560	307,091
1925.....	4,662	76,862	8,604	5,242	59,215	5,488	453,600	55,049	13,675	209,957
1926.....	4,698	70,812	8,175	5,990	55,665	6,006	455,798	57,308	13,246	183,474
Manufacturing										
Total 1						Food products, beverages, and tobacco				
1918.....	51,205	4,691,496	2,112,044	16,069	157,376	9,778	529,897	206,754	2,879	31,417
1919.....	51,903	5,219,345	1,359,198	15,949	366,746	9,134	619,825	150,896	3,198	91,428
1920.....	49,425	4,116,424	944,960	28,746	834,146	7,551	404,847	90,538	6,167	183,893
1921.....	37,030	1,777,786	351,770	42,718	1,898,831	7,207	319,176	65,676	6,570	309,162
1922.....	48,697	3,454,420	389,776	33,788	813,413	8,359	447,671	50,667	5,723	150,366
1923.....	53,795	4,271,899	484,864	31,404	701,012	8,666	506,924	55,646	5,487	124,176
1924.....	51,342	3,595,675	429,653	35,461	832,203	9,080	536,852	63,376	5,362	95,715
1925.....	54,137	4,353,357	546,741	34,537	682,255	9,303	532,472	66,587	5,419	91,512
1926.....	55,094	4,494,790	584,507	38,150	786,687	9,239	592,440	77,147	6,266	95,309
Textiles and textiles products						Leather and leather products				
1918.....	7,018	765,238	393,450	1,345	7,684	1,434	116,377	41,530	290	2,744
1919.....	7,356	912,379	273,022	1,113	8,865	1,620	241,384	74,177	229	2,028
1920.....	5,545	458,613	121,770	4,576	166,646	1,230	61,028	14,811	932	103,922
1921.....	5,312	327,356	67,216	5,560	189,439	981	57,065	11,815	1,203	105,909
1922.....	6,973	535,107	62,500	4,452	78,311	1,330	88,641	10,414	954	24,811
1923.....	7,078	553,412	65,435	4,093	71,845	1,321	72,388	8,248	982	36,126
1924.....	6,836	316,928	37,651	5,393	188,104	1,341	70,319	8,037	1,087	31,876
1925.....	7,504	413,115	48,814	4,767	114,772	1,373	76,023	9,169	986	28,895
1926.....	7,708	314,649	39,829	5,728	195,164	1,413	73,859	9,358	1,078	27,436
Rubber and rubber goods						Lumber and wood products				
1918.....	412	101,595	38,341	153	1,814	4,985	173,869	55,673	1,535	16,703
1919.....	407	126,822	29,871	253	4,723	5,438	284,224	67,080	1,176	19,371
1920.....	279	26,675	3,748	392	31,575	5,300	321,270	79,960	1,965	27,169
1921.....	196	5,102	8,715	445	101,667	2,984	70,511	11,247	3,749	120,220
1922.....	284	41,930	2,286	309	24,563	4,545	207,966	22,699	2,366	48,282
1923.....	273	45,924	2,840	334	21,563	5,250	299,050	33,457	2,132	32,587
1924.....	325	56,900	5,662	313	15,345	4,750	178,869	21,090	2,913	57,754
1925.....	349	122,966	15,412	289	13,942	4,657	200,316	24,667	2,976	53,116
1926.....	339	37,501	4,867	341	24,764	4,591	172,972	21,907	3,271	69,196
Paper, pulp, and products						Printing and publishing				
1918.....	1,277	96,187	36,335	252	3,471	5,192	65,942	17,398	2,006	9,846
1919.....	1,242	129,235	30,040	272	4,604	5,720	128,968	31,756	1,461	8,992
1920.....	1,349	241,616	72,302	344	4,035	6,393	163,160	42,250	1,695	13,709
1921.....	730	44,882	7,584	946	49,179	5,386	124,157	27,183	3,046	26,680
1922.....	1,086	84,025	9,481	683	22,409	5,771	184,716	21,745	2,939	23,020
1923.....	1,240	109,909	12,233	575	14,932	6,183	165,947	19,429	3,040	23,627
1924.....	1,204	92,674	10,675	682	18,361	6,278	175,972	20,802	3,340	28,455
1925.....	1,288	111,186	14,004	652	12,137	6,523	190,909	23,575	3,397	29,505
1926.....	1,365	120,460	15,610	659	14,362	6,931	203,507	25,857	3,614	31,006
Chemicals and allied substances						Stone, clay, and glass products				
1918.....	3,576	394,413	160,607	1,639	14,871	1,856	83,047	32,056	966	7,737
1919.....	3,376	451,771	110,586	1,726	28,064	2,338	107,048	24,389	882	11,159
1920.....	3,047	441,370	98,163	2,779	96,440	2,661	151,173	37,360	1,001	8,287
1921.....	2,502	158,217	29,598	3,422	132,881	1,998	69,756	12,032	1,683	26,260
1922.....	3,512	461,221	54,056	2,605	66,158	2,459	125,692	14,938	1,431	16,586
1923.....	3,472	419,584	49,426	2,845	94,158	2,880	187,844	22,113	1,321	14,374
1924.....	3,640	466,184	56,650	2,961	76,309	2,735	162,403	19,152	1,621	17,944
1925.....	3,951	623,278	78,393	3,011	82,352	2,753	181,547	22,853	1,701	17,846
1926.....	4,076	785,155	102,964	3,210	69,279	2,762	195,166	25,542	1,844	22,112

1Includes all other manufacturing not shown separately

No. 202.—CORPORATION INCOME TAX RETURNS: NUMBER, NET INCOME, AND TAX, BY INDUSTRIAL GROUPS—Continued

Year	Corporations reporting net income			Corporations reporting no net income		Corporations reporting net income			Corporations reporting no net income	
	Number	Net income	Tax	Number	Deficit	Number	Net income	Tax	Number	Deficit
Manufacturing—Continued						Construction				
Metals and metal products										
1918.....	10,539	2,053,328	1,003,031	3,167	44,256	5,297	134,863	71,959	2,434	16,614
1919.....	9,689	1,789,213	457,252	3,429	119,834	5,927	162,464	67,219	2,315	21,862
1920.....	10,135	1,411,647	293,858	4,996	136,757	7,010	113,552	33,179	2,950	28,209
1921.....	5,468	437,367	90,308	10,068	666,002	6,041	67,335	13,595	4,320	51,507
1922.....	8,397	906,956	98,760	7,477	272,040	6,997	91,724	9,653	4,373	52,529
1923.....	10,168	1,427,496	160,771	6,072	178,081	8,151	112,004	11,439	4,400	42,809
1924.....	11,227	1,340,597	162,979	8,943	244,779	8,701	132,704	13,912	4,475	42,011
1925.....	12,760	1,756,753	221,973	8,769	201,445	9,701	156,491	17,581	5,637	43,346
1926.....	11,989	1,803,444	237,077	8,065	192,574	10,075	162,569	19,146	6,695	53,621
Transportation and other public utilities						Trade				
1918.....	12,564	778,278	149,354	5,682	98,779	58,466	1,054,473	369,901	11,683	52,892
1919.....	14,104	963,059	130,290	6,443	84,109	58,952	1,448,290	363,802	11,207	68,946
1920.....	12,922	829,131	98,623	7,677	150,505	52,278	911,173	192,613	26,607	339,482
1921.....	11,831	821,871	101,022	7,274	323,369	42,809	571,945	96,742	45,370	626,828
1922.....	13,690	979,264	119,481	6,821	196,480	59,791	1,014,013	107,041	35,892	318,693
1923.....	14,269	1,257,410	150,999	6,844	125,650	68,186	1,197,926	128,536	32,460	264,797
1924.....	14,565	1,232,012	148,278	7,866	137,753	68,112	1,098,586	120,649	37,211	296,517
1925.....	14,862	1,468,693	186,314	8,751	134,744	71,910	1,254,046	145,350	37,678	287,506
1926.....	15,444	1,723,399	228,662	9,656	120,174	71,403	1,165,558	140,522	41,302	330,998
Public service						Finance—Banking, insurance, etc				
1918.....	9,745	65,402	14,942	5,154	20,362	49,589	684,660	120,087	18,543	205,975
1919.....	11,392	123,311	25,827	4,331	20,470	52,275	848,284	107,938	28,538	145,149
1920.....	11,914	145,491	31,547	5,576	29,199	55,484	933,304	119,002	23,418	293,936
1921.....	10,694	104,873	19,269	8,409	45,939	54,122	739,297	76,271	28,736	363,166
1922.....	13,494	148,367	16,262	9,651	59,615	58,646	887,835	99,098	32,459	397,661
1923.....	15,482	188,368	20,377	9,632	59,141	62,654	868,083	95,114	34,118	410,813
1924.....	15,495	202,165	22,131	10,825	66,650	67,089	995,124	109,444	37,672	460,597
1925.....	16,571	246,426	28,467	12,410	72,226	73,246	1,523,823	179,948	42,701	456,219
1926.....	17,755	260,981	31,040	14,502	103,772	76,819	1,336,893	160,215	53,614	528,032

Source. Statistics of Income, Report of the Commissioner of Internal Revenue, Treasury Department.

# No. 203.—INCOME OF CORPORATIONS AS SHOWN ON INCOME TAX RETURNS: By Industries, 1926

NOTE—All money figures in thousands of dollars. For total for all corporations see Table 201. Group totals include industries not shown separately

Industry	Corporations reporting net income			Corporations reporting no net income		
	Number	Gross income	Net income	Number	Gross income	Deficit
<b>Agriculture and related industries</b> .....	4, 698	615, 141	70, 812	5, 990	249, 342	55, 685
<b>Mining and quarrying</b> .....	6, 008	3, 207, 942	455, 798	13, 246	1, 339, 759	183, 474
Metal mining.....	383	709, 432	88, 790	1, 847	411, 429	33, 324
Coal—anthracite, bituminous, peat, coke.....	1, 349	1, 063, 913	92, 650	2, 330	569, 711	54, 936
Oil and gas.....	1, 921	929, 383	191, 060	2, 954	260, 516	69, 681
Quarrying—stone, clay, sand, gravel, precious and semiprecious stones, holders and lessors.....	1, 146	301, 790	44, 347	1, 109	57, 122	10, 739
<b>Manufacturing</b> .....	55, 094	52, 921, 594	4, 494, 790	38, 150	9, 573, 203	786, 687
Food products.....	9, 239	11, 678, 179	592, 440	6, 266	1, 797, 883	95, 309
Bakery products—confectionery.....	1, 773	1, 316, 161	111, 764	1, 351	206, 260	13, 634
Milling—bran, flour, meal.....	879	1, 243, 179	38, 791	651	222, 946	8, 737
Meat packing and packing-house products.....	418	4, 204, 428	53, 431	230	597, 430	9, 544
Sugar refining—cane, beet, maple, and products.....	75	604, 101	28, 192	150	238, 245	22, 883
Tobacco, cigars, cigarettes, etc.....	289	1, 124, 966	117, 366	208	35, 051	2, 257
Textiles and textile products.....	7, 708	5, 354, 117	314, 649	5, 728	2, 398, 617	195, 164
Cotton goods, cotton yarn, napping, dyeing, etc.....	520	826, 578	42, 778	541	635, 907	73, 621
Woolen and worsted goods, wool yarns, wool carpets, etc.....	262	386, 842	26, 010	350	374, 720	24, 777
Silk and rayon goods, silk fabrics, spinning, etc.....	432	633, 215	54, 902	373	234, 589	12, 905
Clothing—custom-made, hats, caps, underwear, shirts, etc.....	3, 810	1, 773, 700	72, 917	2, 516	454, 280	29, 172
Knit goods, sweaters, hosiery, etc.....	648	559, 264	39, 386	551	167, 438	13, 913
Leather and leather products.....	1, 413	1, 234, 232	73, 859	1, 078	427, 012	27, 436
Boots, shoes, slippers, etc.....	669	786, 915	50, 247	611	216, 476	16, 290
Gloves, saddlery, harness, trunks, tanning, etc.....	744	447, 317	23, 612	467	210, 537	11, 146
Rubber and rubber goods.....	339	1, 147, 455	37, 501	341	452, 909	24, 764
Auto tires, tubes, etc.....	66	892, 163	19, 781	109	400, 188	18, 941
Rubber boots, shoes, hose, celluloid, ivory, bone, etc.....	273	255, 292	17, 720	232	52, 722	5, 823
Lumber and wood products.....	4, 591	2, 330, 766	172, 972	3, 271	738, 045	69, 197
Sawmill and planing-mill products.....	2, 104	1, 256, 708	96, 920	1, 726	472, 860	46, 266
Furniture, house and office, carriage and wagon bodies, all other products.....	2, 487	1, 074, 059	76, 052	1, 545	265, 185	22, 929
Paper, pulp, and products.....	1, 365	1, 430, 426	120, 460	659	221, 834	14, 362
Printing and publishing.....	6, 931	2, 196, 254	203, 507	3, 614	351, 190	31, 006
Chemicals and allied substances.....	4, 076	7, 322, 287	785, 156	3, 210	768, 153	69, 279
Petroleum and mineral oil refining.....	288	3, 942, 251	426, 189	298	392, 118	24, 244
Chemicals proper, acids and other compounds, paints, vegetable and mineral oils, soaps, fertilizers, drugs, etc.....	3, 788	3, 380, 036	358, 967	2, 912	376, 035	45, 035
Stone, clay, and glass products.....	2, 762	1, 500, 051	195, 166	1, 844	164, 876	22, 112
Metal manufacturing.....	11, 989	16, 661, 793	1, 803, 444	8, 065	1, 792, 082	192, 574
Blast furnaces, steel mills, rolling mills.....	2, 650	3, 417, 561	372, 210	1, 279	354, 391	30, 453
Locomotives and railroad equipment.....	145	586, 860	58, 164	99	65, 244	6, 621
Motor vehicles and accessories.....	826	4, 883, 721	487, 628	927	407, 410	45, 335
Electrical machinery and equipment.....	956	1, 304, 172	161, 799	787	137, 992	17, 614
Household machinery and equipment.....	702	648, 085	89, 919	500	90, 648	12, 578
Factory machinery, textile, paper printing presses, machine tools, etc.....	1, 131	738, 473	96, 681	717	96, 149	10, 979
Building material and supplies.....	814	770, 740	77, 133	511	65, 830	6, 069
Agricultural machinery and equipment.....	282	504, 711	72, 343	283	49, 214	19, 108
All other machinery.....	3, 199	2, 266, 774	262, 140	2, 086	344, 284	33, 715
<b>Construction</b> .....	10, 075	2, 287, 648	192, 569	6, 695	528, 548	53, 621
Building and construction above ground, including equipping and installing machinery, wrecking, razing, or moving, etc.....	7, 131	1, 305, 281	76, 819	4, 312	291, 876	28, 034
Excavation, road building, waterfront construction, railroad construction, shipbuilding, etc.....	2, 944	982, 267	85, 750	2, 383	236, 672	25, 587

**No. 203.—INCOME OF CORPORATIONS AS SHOWN ON INCOME TAX RETURNS: BY INDUSTRIES, 1926—Continued**

Industry	Corporations reporting net income			Corporations reporting no net income		
	Number	Gross income	Net income	Number	Gross income	Deficit
<b>Transportation and other public utilities</b> .....	<b>15,444</b>	<b>13,518,653</b>	<b>1,723,399</b>	<b>9,656</b>	<b>1,245,831</b>	<b>120,174</b>
Steam railroads.....	356	6,755,248	762,339	369	370,740	28,911
Electric railroads, Pullman cars, refrigerator, stock, poultry, and fruit cars, and lessors.....	538	1,084,241	194,587	482	245,843	22,252
Water transportation.....	971	328,857	41,930	787	120,016	15,205
Local transportation, taxicabs, sightseeing busses, drayage and delivery service, and special feed, storage and packers, garage, etc.....	6,444	676,826	59,313	4,547	213,059	23,368
Electric light and power companies.....	1,276	1,207,721	212,960	563	185,719	12,920
Telephone, telegraph, and radio companies.....	3,201	1,721,645	255,459	1,155	8,992	1,357
Gas companies, natural and artificial.....	471	572,105	87,910	245	28,794	2,130
<b>Trade</b> .....	<b>71,403</b>	<b>33,459,083</b>	<b>1,165,558</b>	<b>41,302</b>	<b>7,478,473</b>	<b>330,998</b>
Wholesale.....	21,622	16,102,854	427,095	11,389	3,905,806	139,692
Retail.....	30,123	11,097,340	534,008	17,360	1,727,167	105,671
Commission.....	3,856	1,568,940	63,274	2,631	545,626	21,984
<b>Service</b> .....	<b>17,755</b>	<b>2,628,040</b>	<b>260,981</b>	<b>14,502</b>	<b>732,272</b>	<b>103,772</b>
Restaurants, hotels, laundries, domestic, etc. Theaters, motion pictures, all other amusements, etc.....	5,593	1,063,557	77,761	4,258	380,820	42,750
Professional, business, educational, curative, legal, engineering, etc.....	3,725	696,469	86,031	3,440	194,284	31,533
<b>Finance</b> .....	<b>8,437</b>	<b>868,014</b>	<b>96,589</b>	<b>6,804</b>	<b>157,168</b>	<b>29,489</b>
National banks.....	76,819	9,356,744	1,336,893	53,614	2,942,936	525,032
State and private banks.....	5,532	1,018,379	138,873	2,707	208,127	31,909
Bank and trust companies, savings banks.....	10,912	507,231	83,762	5,403	157,647	32,072
Stock and bond brokers.....	3,204	1,232,378	147,882	1,161	136,443	16,012
Holding companies, real estate, patents, investments, concessions, etc.....	787	1,030,547	42,316	551	654,065	15,989
Life insurance companies.....	39,457	1,768,632	416,851	34,187	643,110	225,188
All other insurance and bonding companies.....	418	629,468	132,129	106	5,691	1,112
	717	817,036	58,770	687	596,154	90,725

Source Statistics of Income, Report of the Commissioner of Internal Revenue, Treasury Department

**No. 204.—ASSETS AND LIABILITIES OF CORPORATIONS: AS OF DECEMBER 31, 1926, OR AT CLOSE OF FISCAL YEAR NEAREST THERETO**

NOTE.—All figures in millions and tenths of millions of dollars. Data are for 359,449 corporations submitting balance sheets with income tax returns out of a total of 455,320 filing returns

Item	Total <sup>1</sup>	Agriculture	Mining and quarrying	Manufacturing		
				Total	Food, etc	Textiles
<b>Assets, total</b> .....	<b>250,178.6</b>	<b>2,050.0</b>	<b>12,172.1</b>	<b>64,727.2</b>	<b>8,883.5</b>	<b>6,280.0</b>
Cash (in till and deposits in banks).....	16,801.5	47.4	406.0	3,527.7	453.6	375.3
Notes receivable.....	6,725.3	70.3	152.1	1,689.2	128.7	75.9
Accounts receivable (less reserve for bad debts).....	16,826.3	121.9	610.5	6,877.5	869.2	979.5
Inventory.....	20,939.0	117.6	635.7	12,284.0	1,708.5	1,761.7
Tax-exempt investments.....	8,694.4	16.2	298.7	1,821.6	167.7	156.8
Real estate, buildings, and equipment (less depreciation).....	97,523.5	1,242.4	7,967.5	26,618.7	3,321.8	2,268.7
Miscellaneous <sup>2</sup> .....	82,668.6	434.2	2,068.6	11,908.5	2,234.0	642.1
<b>Liabilities, total</b> .....	<b>250,178.6</b>	<b>2,050.0</b>	<b>12,172.1</b>	<b>64,727.2</b>	<b>8,883.5</b>	<b>6,280.0</b>
Notes payable.....	13,204.4	291.5	442.8	4,024.3	703.7	623.9
Accounts payable.....	10,837.5	115.2	459.3	3,192.1	388.7	454.4
Bonded debt and mortgages.....	21,801.0	114.2	1,008.0	4,339.8	721.9	193.6
Miscellaneous <sup>2</sup> .....	85,075.7	247.4	1,909.9	6,897.5	1,011.6	591.3
Capital stock.....	84,662.8	1,071.4	6,714.4	31,411.6	4,467.8	3,179.3
Preferred.....	17,146.1	97.1	538.0	7,431.3	1,274.7	798.2
Common.....	67,516.6	974.3	6,176.4	23,980.3	3,193.0	2,381.1
<b>Surplus</b> .....	<b>39,154.4</b>	<b>363.8</b>	<b>3,455.2</b>	<b>16,189.4</b>	<b>1,785.0</b>	<b>1,481.1</b>
Less deficit.....	4,667.1	153.5	817.6	1,327.5	195.1	203.6
<b>Net surplus</b> .....	<b>34,597.3</b>	<b>210.3</b>	<b>1,637.7</b>	<b>14,861.9</b>	<b>1,589.9</b>	<b>1,277.5</b>

For footnotes, see following page.

No. 204.—ASSETS AND LIABILITIES OF CORPORATIONS: AS OF DECEMBER 31, 1926, OR AT CLOSE OF FISCAL YEAR NEAREST THERETO—Continued

Item	Manufacturing—Continued						
	Leather and products	Rubber and rubber goods	Lumber and wood products	Paper, pulp, and products	Printing and publishing	Chemicals and allied products	Stone, clay, and glass products
<b>Assets, total</b> .....	1, 226 5	1, 376 4	4, 023 3	2, 097 4	2, 383 6	12, 257 7	2, 237 2
Cash (in full and deposits in banks).....	76 2	67 4	142 4	84 5	120 1	492 3	107 8
Notes receivable.....	19 9	15 6	126.7	30 6	46 3	290 7	38 5
Accounts receivable (less reserve for bad debts).....	241 9	204 8	482 8	227 8	325 6	772 3	211 2
Inventory.....	398 0	341 9	770 0	297 9	204 5	1, 846 5	311 5
Tax-exempt investments.....	22 9	11 5	76 0	38 9	85 8	282 3	86 2
Real estate, buildings, and equipment (less depreciation).....	295 7	551 5	1, 853 9	999 3	781 8	5, 370 6	1, 157 3
Miscellaneous.....	171 9	183 7	571 5	418 4	819 5	3, 203 0	324 7
<b>Liabilities, total</b> .....	1, 226 5	1, 376 4	4, 023 3	2, 097 4	2, 383 6	12, 257 7	2, 237 2
Notes payable.....	120 6	60 8	440 9	93 9	182 5	390 8	107 4
Accounts payable.....	88 7	97 8	251 1	95 9	157 8	488 7	90 9
Bonded debt and mortgages.....	17 9	240 2	159 9	253 0	174 5	800 2	99 0
Miscellaneous.....	131 8	124 8	461.6	210 7	359.4	1, 487 9	257 6
Capital stock.....	709 8	665 4	1, 663 0	980 2	939 9	6, 323 1	1, 165 7
Preferred.....	219 2	278 9	285 5	223 3	185 5	1, 131 7	258 7
Common.....	490 5	386.5	1, 377 6	756 9	754 4	5, 191 5	907 1
Surplus.....	226 7	218 9	1, 159 2	488 9	637 2	2, 934 4	562 1
Less deficit.....	68 9	31 5	112 6	25 2	67 7	167 5	45 6
Net surplus.....	157 8	187 4	1, 046 7	463 7	569 5	2, 766 9	516 5

Item	Manufacturing—Continued		Construction	Transportation and other public utilities	Trade	Public service	Finance—banking, insurance, etc
	Metals and products	All other					
<b>Assets, total</b> .....	21, 222 5	2, 758 6	2, 358 1	57, 245 4	19, 140 3	4, 872 8	87, 452 2
Cash (in full and deposits in banks).....	1, 478 5	129 8	213 3	1, 357 6	1, 163 5	300 0	9, 776 8
Notes receivable.....	821 9	94 4	98 8	297.2	835 3	93 6	3, 478 5
Accounts receivable (less reserve for bad debts).....	2, 123.3	439 1	569 6	1, 231 1	4, 797 2	290 5	2, 311 8
Inventory.....	4, 050.8	592 6	273 4	941 9	5, 568 6	183 6	923 5
Tax-exempt investments.....	802.0	91 1	47 8	285 4	356 8	42 1	5, 823 4
Real estate, buildings, and equipment (less depreciation).....	9, 154 7	863 3	653 9	40, 698 8	4, 079 5	2, 782 8	13, 428 7
Miscellaneous.....	2, 791.3	548.3	501 3	12, 433 4	2, 339 4	1, 180 2	51, 709.5
<b>Liabilities, total</b> .....	21, 222.5	2, 758 6	2, 358 1	57, 245 4	19, 140 3	4, 872 8	87, 452 2
Notes payable.....	1, 102 2	197 5	290 6	1, 139 4	2, 574 4	522 6	3, 900 3
Accounts payable.....	916.3	161 7	354 4	1, 197 7	2, 422 2	298 2	2, 781 7
Bonded debt and mortgages.....	1, 577 9	101 5	232 7	9, 931 5	583 6	841 7	4, 740 0
Miscellaneous.....	1, 971 5	289 5	524 5	18, 465 9	1, 500.8	651 5	54, 861 8
Capital stock.....	9, 939.5	1, 377 7	638 6	20, 466 1	8, 557 7	1, 963 3	13, 732 6
Preferred.....	2, 476 1	301 6	84 6	4, 854 8	1, 721 5	446 8	1, 955 6
Common.....	7, 463 4	1, 076 1	554.0	15, 611 3	6, 836 1	1, 516 4	11, 777 0
Surplus.....	6, 089.4	666 0	401 9	6, 690 4	4, 092 9	787 8	8, 139 2
Less deficit.....	374 4	35 3	84 6	645 6	591 2	192 2	703 4
Net surplus.....	5, 715.1	630 7	317 3	6, 044 8	3, 501 7	595 6	7, 435 8

<sup>1</sup> Includes nominal concerns, nature of business not given, not shown separately

<sup>2</sup> Includes the following items: Investments in affiliated companies, stocks and bonds other than tax-exempt obligations; loans, mortgages, etc.; patents, good will, formulas, trade-marks, etc.

<sup>3</sup> Includes the following items: Reserves, accrued expenses, unadjusted credits, deposits (time, saving, demand, etc.) reported by banks, reserves, other funds, capital stock, and surplus for life insurance companies

Source. Statistics of Income, Report of Commissioner of Internal Revenue, Treasury Department.

## No. 205.—PERSONAL INCOME TAX RETURNS: ANALYSIS

NOTE.—All money figures, except as indicated, in millions of dollars. See headnote, Table 194

	1919	1920	1921	1922	1923	1924	1925	1926
Total income.....	22,438	26,891	23,329	24,872	29,248	29,579	25,272	25,447
Wages and salaries.....	10,756	15,270	13,813	13,694	14,195	13,618	9,742	9,904
Business.....	3,578	3,206	2,366	2,840	4,723	4,755	3,889	3,573
Partnerships <sup>1</sup> .....	1,831	1,701	1,341	1,427	1,676	1,810	1,827	1,733
Profits from sales of real estate, stocks, bonds, etc.....	999	1,021	463	2,742	2,863	2,125	2,1,992	2,1,466
Rents and royalties.....	1,019	1,047	1,178	1,225	1,814	2,010	1,471	1,451
Interest and investment income <sup>1</sup> .....	1,437	1,648	1,643	1,997	2,507	2,591	2,120	2,270
Items exempt from normal tax.....	2,517	2,797	2,524	2,948	3,469	3,670	4,431	4,962
Dividends.....	2,454	2,736	2,477	2,664	3,120	3,251	3,465	4,012
Interest on Gov't obligations.....	63	62	47	34	44	30	26	37
Capital net gain from sale of assets held over 2 years.....				249	305	389	940	913
General deductions, including contri- butions, etc.....	2,578	2,955	3,752	3,536	4,470	3,923	3,377	3,489
Net income.....	19,860	23,736	19,577	21,336	24,777	25,656	21,895	21,959
Net loss for prior year.....				45	34	30	32	27
Exemptions from normal tax.....	11,941	15,632	16,716	17,649	20,743	19,999	16,658	17,086
Personal exemption and credit for dependents.....	9,424	12,835	14,192	14,702	17,275	16,329	12,228	12,124
Above items exempt from normal tax.....	2,517	2,797	2,524	2,947	3,469	3,670	4,430	4,962
Less exemptions in excess of net income.....	449	702	2,714	2,740	2,862	2,375	1,506	1,823
Net exemptions.....	11,493	14,930	14,002	14,909	17,881	17,624	15,153	15,263
Net income subject to normal tax.....	8,367	8,806	5,575	6,382	6,882	8,003	6,711	6,699
Normal tax.....	468	478	308	355	284	258	216	201
Surtax.....	802	597	411	475	349	438	433	448
Net tax on capital net gain from sale of assets held over 2 years <sup>2</sup> .....				31	29	39	110	108
Less tax credit of 25 per cent on earned net income.....						31	25	25
Net tax.....	1,270	1,075	719	861	662	704	735	732
Number of returns (thousands).....	5,333	7,260	6,662	6,787	7,698	7,370	4,171	4,138
Average net income per return.....	\$3,724	\$3,269	\$2,959	\$3,143	\$3,219	\$3,481	\$5,249	\$5,306
Average tax per return.....	\$238	\$148	\$108	\$127	\$86	\$96	\$176	\$177
Averages per capita of total popula- tion:								
Net income returned.....	\$187	\$224	\$185	\$195	\$223	\$228	\$189	\$186
Tax.....	\$11.98	\$10.14	\$6.79	\$7.86	\$5.96	\$6.27	\$6.35	\$6.23

<sup>1</sup> Income from fiduciaries included with partnerships in 1919 to 1921; other years, with interest and investment income<sup>2</sup> Exclusive of capital net gain from sales of assets held over 2 years.<sup>3</sup> Tax (12½ per cent) on capital net gain from sale of assets held for more than 2 years, less tax credit of 12½ per cent on capital net loss on such salesNo. 206.—PERSONAL INCOME TAX RETURNS:<sup>1</sup> BY FAMILY RELATIONSHIP

	1921	1922	1923	1924	1925	1926
Number of returns.....	6,862,176	6,787,481	7,698,321	7,369,788	4,171,051	4,138,092
Joint returns <sup>2</sup> .....	3,477,592	3,566,302	4,505,729	3,991,551	2,074,849	2,017,182
Wives making separate re- turns from husbands.....	89,634	101,319	170,573	173,225	120,358	113,550
Men—Heads of families.....	401,662	392,356	413,682	394,201	274,139	268,090
Women—Heads of families.....	115,356	115,929	157,669	153,279	96,562	100,284
All other—Men.....	1,945,009	1,823,525	1,697,031	1,565,258	1,193,379	1,146,871
All other—Women.....	608,829	740,500	718,080	773,314	392,186	449,727
Community property income.....	24,094	27,840	35,557	18,960	19,878	42,388
Net income (1,000 dollars).....	19,577,213	21,336,213	24,777,466	25,956,153	21,894,576	21,958,506
Joint returns <sup>2</sup> .....	12,448,419	13,673,814	16,711,847	16,695,178	13,772,705	13,555,920
Wives making separate re- turns from husbands.....	486,170	638,862	847,110	955,000	1,093,921	1,110,206
Men—Heads of families.....	1,066,537	1,091,277	1,190,175	1,227,022	1,103,331	1,102,102
Women—Heads of families.....	309,461	361,518	448,887	445,185	406,658	430,422
All other—Men.....	3,788,543	3,758,959	3,628,421	4,223,497	3,716,460	3,639,034
All other—Women.....	1,302,398	1,603,594	1,688,707	1,583,757	1,540,291	1,750,900
Community property income.....	175,684	208,189	262,319	226,314	261,210	363,922

<sup>1</sup> See headnote, Table 194<sup>2</sup> Joint returns of husbands and wives. Also includes returns of husbands whose wives, though living with them, file separate returns

Source of Tables 205 and 206: Statistics of income, Reports of the Commissioner of Internal Revenue.

## No. 207.—PERSONAL INCOME TAX RETURNS: BY INCOME CLASSES

NOTE.—See headnote, Table 194. The net income here shown is subject to deduction of exemptions to give net income subject to tax, see Tables 205 and 208

Income class (net income)	1920	1921	1922	1923	1924	1925	1926
<b>Number of returns..</b>	<b>7,259,944</b>	<b>6,662,176</b>	<b>6,787,481</b>	<b>7,698,321</b>	<b>7,369,788</b>	<b>4,171,051</b>	<b>4,138,092</b>
Under \$1,000.....		401,849	402,076	368,502	344,876	98,178	119,513
\$1,000 to \$2,000.....	2,671,950	2,440,544	2,471,181	2,523,150	2,413,881	1,071,992	1,045,519
\$2,000 to \$3,000.....	2,569,316	2,222,031	2,129,898	2,472,641	2,112,993	842,528	837,792
\$3,000 to \$5,000.....	1,337,116	1,072,146	1,190,115	1,718,625	1,800,900	1,327,683	1,240,400
\$5,000 to \$10,000.....	455,442	353,247	391,373	387,842	437,330	503,652	560,549
\$10,000 to \$25,000.....	171,830	132,344	151,329	170,095	191,216	236,779	246,730
\$25,000 to \$50,000.....	38,548	28,946	35,478	39,832	47,061	59,721	57,487
\$50,000 to \$100,000.....	12,093	8,717	12,000	12,452	15,816	20,958	20,620
\$100,000 to \$150,000.....	2,191	1,367	2,171	2,339	3,065	4,759	4,724
\$150,000 to \$300,000.....	1,063	739	1,323	1,301	1,876	3,223	3,267
\$300,000 to \$500,000.....	239	162	309	327	457	892	892
\$500,000 to \$1,000,000.....	123	63	161	141	242	479	408
\$1,000,000 and over.....	33	21	67	74	75	207	231
In thousands of dollars							
<b>Net income.....</b>	<b>23,735,629</b>	<b>19,577,213</b>	<b>21,336,213</b>	<b>24,777,466</b>	<b>25,656,153</b>	<b>21,894,676</b>	<b>21,958,506</b>
Under \$1,000.....		213,850	247,564	252,513	235,452	58,306	67,238
\$1,000 to \$2,000.....	4,050,067	3,620,762	3,630,571	3,693,642	3,564,474	1,774,601	1,747,917
\$2,000 to \$3,000.....	6,184,643	5,325,931	5,153,497	6,073,444	5,277,147	2,047,970	2,042,903
\$3,000 to \$5,000.....	5,039,507	4,054,891	4,500,558	6,469,195	6,827,924	5,236,003	4,872,789
\$5,000 to \$10,000.....	5,068,331	2,378,759	2,641,905	2,653,026	2,991,188	3,469,852	3,838,954
\$10,000 to \$25,000.....	2,647,905	1,958,156	2,255,872	2,538,079	2,855,397	3,544,898	3,660,623
\$25,000 to \$50,000.....	1,307,785	979,629	1,208,274	1,350,680	1,599,848	2,032,239	1,954,653
\$50,000 to \$100,000.....	810,388	582,230	805,224	833,898	1,066,784	1,413,948	1,389,339
\$100,000 to \$150,000.....	265,512	163,521	260,204	280,656	377,645	572,860	570,189
\$150,000 to \$300,000.....	215,139	145,948	266,814	260,584	374,609	655,300	661,412
\$300,000 to \$500,000.....	89,814	61,343	116,672	124,599	171,249	339,774	340,214
\$500,000 to \$1,000,000.....	79,963	42,780	107,671	95,107	158,462	327,868	317,881
\$1,000,000 and over.....	77,078	49,411	141,387	152,072	155,974	422,457	494,394
<b>Tax yield (normal and surtax) <sup>1</sup>.....</b>	<b>1,075,054</b>	<b>719,387</b>	<b>861,057</b>	<b>661,666</b>	<b>704,265</b>	<b>734,555</b>	<b>732,471</b>
Under \$1,000.....		174	247	317	146	69	56
\$1,000 to \$2,000.....	36,860	29,161	27,081	18,253	10,432	1,704	1,761
\$2,000 to \$3,000.....	45,508	20,712	20,730	16,006	10,207	3,809	4,217
\$3,000 to \$5,000.....	83,496	42,744	47,533	46,048	26,865	8,326	7,245
\$5,000 to \$10,000.....	97,886	68,871	70,388	54,075	28,828	19,149	20,272
\$10,000 to \$25,000.....	172,259	126,886	123,576	103,109	78,069	74,172	72,465
\$25,000 to \$50,000.....	154,265	112,910	125,697	103,601	109,360	120,689	112,797
\$50,000 to \$100,000.....	163,718	115,712	144,093	108,879	136,636	147,843	140,947
\$100,000 to \$150,000.....	86,588	62,330	71,337	55,719	75,678	79,472	77,900
\$150,000 to \$300,000.....	92,604	61,496	98,810	62,104	92,481	103,059	103,997
\$300,000 to \$500,000.....	47,043	31,860	43,488	31,669	45,771	55,722	55,256
\$500,000 to \$1,000,000.....	45,641	25,112	38,559	25,498	42,585	53,674	53,665
\$1,000,000 and over.....	49,185	31,420	49,518	35,788	47,207	66,867	81,893
<b>Average tax rate on net income, per cent.....</b>	<b>4.53</b>	<b>3.67</b>	<b>4.04</b>	<b>2.67</b>	<b>2.74</b>	<b>3.35</b>	<b>3.34</b>
Under \$1,000.....		.08	.10	.13	.06	.12	.08
\$1,000 to \$2,000.....	.91	.81	.75	.49	.29	.10	.10
\$2,000 to \$3,000.....	.74	.39	.40	.27	.19	.19	.21
\$3,000 to \$5,000.....	1.66	1.05	1.06	.71	.39	.16	.15
\$5,000 to \$10,000.....	3.19	2.90	2.66	2.04	.96	.55	.52
\$10,000 to \$25,000.....	6.76	6.48	5.48	4.06	2.73	2.09	1.98
\$25,000 to \$50,000.....	11.80	11.53	10.40	7.67	6.84	5.94	5.77
\$50,000 to \$100,000.....	20.20	19.87	17.89	13.06	12.81	10.42	10.14
\$100,000 to \$150,000.....	32.61	32.00	27.42	19.85	20.04	13.87	13.66
\$150,000 to \$300,000.....	43.04	42.14	37.03	23.83	24.69	15.73	15.72
\$300,000 to \$500,000.....	52.67	61.94	37.27	25.42	26.73	16.40	16.24
\$500,000 to \$1,000,000.....	57.08	58.70	35.81	26.81	26.87	16.39	16.88
\$1,000,000 and over.....	63.81	63.59	35.02	23.53	30.27	15.83	16.56

<sup>1</sup> Beginning 1922, includes tax on capital net gain from sale of assets held more than two years less tax credit on capital net loss in 1924, 1925, and 1926.

Source: Statistics of Income, Reports of the Commissioner of Internal Revenue, Treasury Department.

# No. 208.—PERSONAL INCOME TAX RETURNS: ANALYSIS, BY INCOME CLASSES, 1926

Income class (net income)	Number of returns	Total income	General deductions, including contributions	Net income <sup>1</sup>	Net loss for prior year	Exemptions from normal tax			
						Personal exemption	Divi- dends	Interest on Gov't obligations <sup>2</sup>	Capital net gain <sup>3</sup>
In thousands of dollars									
Total.....	4, 138, 092	25, 447, 436	3, 468, 930	21, 958, 506	27, 412	12, 124, 076	4, 011, 590	36, 782	912, 918
Under \$1,000, free <sup>4</sup> .....	107, 664	160, 532	120, 119	60, 413	-----	278, 781	14, 441	-----	-----
Under \$1,000, taxed.....	11, 849	13, 194	6, 370	6, 824	-----	523	2, 174	-----	-----
\$1,000 to \$2,000, free <sup>4</sup> .....	459, 956	921, 151	197, 538	723, 613	-----	1, 259, 297	34, 225	-----	-----
\$1,000 to \$2,000, taxed.....	585, 563	1, 086, 612	62, 308	1, 024, 304	-----	893, 131	10, 345	-----	-----
\$2,000 to \$3,000, free <sup>4</sup> .....	384, 994	1, 092, 429	137, 262	955, 167	-----	1, 412, 690	49, 562	-----	-----
\$2,000 to \$3,000, taxed.....	452, 798	1, 159, 417	71, 681	1, 087, 736	-----	712, 617	33, 999	-----	-----
\$3,000 to \$4,000, free <sup>4</sup> .....	487, 849	1, 072, 751	262, 244	1, 710, 507	-----	1, 958, 996	83, 676	-----	-----
\$3,000 to \$4,000, taxed.....	238, 429	949, 515	89, 666	859, 849	-----	576, 429	36, 735	-----	-----
\$4,000 to \$5,000, free <sup>4</sup> .....	181, 346	941, 144	150, 807	790, 337	-----	803, 620	103, 569	-----	-----
\$4,000 to \$5,000, taxed.....	332, 776	1, 762, 732	250, 637	1, 512, 095	-----	1, 117, 720	56, 201	-----	-----
\$5,000 to \$6,000, free <sup>4</sup> .....	21, 588	150, 750	34, 034	116, 716	-----	90, 438	47, 033	-----	-----
\$5,000 to \$6,000, taxed.....	177, 484	1, 118, 142	146, 736	971, 406	-----	629, 267	43, 076	-----	-----
\$6,000 to \$10,000, free <sup>4</sup> .....	23, 705	250, 402	71, 283	179, 119	-----	76, 152	140, 915	-----	-----
\$6,000 to \$10,000, taxed.....	337, 772	2, 971, 780	400, 068	2, 571, 712	-----	1, 197, 586	204, 285	-----	-----
\$10,000 to \$25,000.....	246, 730	4, 274, 760	614, 137	3, 660, 623	-----	842, 597	815, 446	14, 216	-----
\$25,000 to \$50,000.....	57, 487	2, 270, 914	316, 260	1, 954, 654	-----	184, 086	666, 606	9, 377	28, 159
\$50,000 to \$100,000.....	20, 520	1, 599, 865	210, 526	1, 389, 339	-----	62, 756	578, 784	6, 095	141, 510
\$100,000 to \$150,000.....	4, 724	661, 941	91, 751	570, 190	-----	13, 933	271, 148	2, 070	100, 669
\$150,000 to \$300,000.....	3, 267	763, 548	102, 136	661, 412	-----	3, 099	301, 487	1, 860	137, 515
\$300,000 to \$500,000.....	892	389, 257	49, 043	340, 214	-----	2, 341	150, 982	1, 165	119, 783
\$500,000 to \$1,000,000.....	468	364, 076	46, 194	317, 882	-----	1, 228	154, 878	700	116, 611
\$1,000,000 and over.....	231	552, 524	58, 130	494, 364	-----	591	206, 723	799	248, 671

Income class (net income)	Normal tax	Surtax	Net tax on capital net gain <sup>5</sup>	Tax credit of 25 per cent on earned net income	Net tax	Average tax per individual (dollars)	Average rate of tax on net income (per cent)	Per cent distribution		
								Re- turns	Net in- come	Net tax
In thousands of dollars										
Total.....	200, 599	448, 330	108, 188	24, 647	732, 471	177 01	3 34	100 00	100 00	100 00
Under \$1,000, free <sup>4</sup>										
Under \$1,000, taxed	73			17	56	4 69	0 81	2 89	0 31	0 01
\$1,000 to \$2,000, free <sup>4</sup>										
\$1,000 to \$2,000, taxed	2, 345			583	1, 761	3 00	17	25 26	7 96	24
\$2,000 to \$3,000, free <sup>4</sup>										
\$2,000 to \$3,000, taxed	5, 597			1, 381	4, 217	9 31	39	20 25	9 30	57
\$3,000 to \$4,000, free <sup>4</sup>										
\$3,000 to \$4,000, taxed	4, 072			994	3, 078	12 91	36	17 55	11 71	42
\$4,000 to \$5,000, free <sup>4</sup>										
\$4,000 to \$5,000, taxed	5, 560			1, 393	4, 167	12 52	28	12 42	10 49	57
\$5,000 to \$6,000, free <sup>4</sup>										
\$5,000 to \$6,000, taxed	4, 638			976	3, 663	20 63	38	4 81	4 96	50
\$6,000 to \$10,000, free <sup>4</sup>										
\$6,000 to \$10,000, taxed	10, 990			3, 379	16, 610	49 18	65	8 73	12 53	2 28
\$10,000 to \$25,000.....	58, 344	22, 936		8, 815	72, 465	293 70	1 98	5 97	16 67	9 89
\$25,000 to \$50,000.....	43, 883	70, 589	2, 695	4, 371	112, 797	1, 962 00	5 77	1 39	8 89	15 40
\$50,000 to \$100,000.....	27, 072	99, 711	15, 975	1, 811	140, 947	6, 869 00	10 14	50	6 32	19 25
\$100,000 to \$150,000.....	9, 231	57, 233	11, 866	450	77, 900	16 490 00	13 66	11	2 60	10 64
\$150,000 to \$300,000.....	10, 063	75, 677	18, 590	332	103, 997	31, 833 00	15 72	08	3 02	14 19
\$300,000 to \$500,000.....	3, 730	37, 136	14, 473	84	55, 256	61, 946 00	16 24	02	1 05	7 54
\$500,000 to \$1,000,000.....	2, 870	36, 645	14, 190	41	53, 665	114, 669 00	16 88	01	1 45	7 32
\$1,000,000 and over.....	3, 111	48, 403	30, 399	20	81, 893	354, 515 00	16 56	01	2 24	11 18

<sup>1</sup> Capital net gain from sale of assets held more than two years is included in net income, but capital net loss from sale of assets held more than two years and net loss for prior year are not deducted

<sup>2</sup> If not wholly exempt from tax

<sup>3</sup> Relates to net gain from sale of assets held for more than two years exempt from normal tax but subject to a special tax

<sup>4</sup> Specific exemptions exceed net income

<sup>5</sup> Tax (12½ per cent) on capital net gain from sale of assets held for more than two years, less tax credit of 12½ per cent on capital net loss on such sales.

Source: Statistics of Income, Report of the Commissioner of Internal Revenue, Treasury Department.



# No. 209.—PERSONAL INCOME TAX RETURNS: TOTAL INCOME BY INCOME CLASSES, DISTRIBUTED BY SOURCES OF INCOME, 1926

NOTE.—For total income and items exempt from normal tax see Table 208

Income class (net income)	Income from personal industry and business				Income from property			
	Wages and salaries	Business	Partnerships	Profits from sales of real estate, securities, etc. <sup>1</sup>	Rents and royalties	Dividends	Interest and investment income <sup>2</sup>	Interest on Government obligations <sup>3</sup>
	In thousands of dollars							
<b>Total</b> .....	9, 994, 315	3, 572, 696	1, 732, 581	2, 378, 542	1, 450, 760	4, 011, 590	2, 289, 970	36, 728
Under \$1,000 free <sup>4</sup> .....	43, 278	59, 325	5, 362	4, 103	31, 564	19, 441	17, 459	-----
Under \$1,000 taxed.....	1, 680	686	128	727	2, 124	2, 174	5, 675	-----
\$1,000 to \$2,000 free <sup>4</sup> .....	553, 567	175, 564	16, 257	10, 849	71, 996	34, 225	58, 693	-----
\$1,000 to \$2,000 taxed.....	870, 853	57, 022	15, 701	5, 764	58, 539	10, 345	68, 388	-----
\$2,000 to \$3,000 free <sup>4</sup> .....	502, 266	312, 831	38, 254	19, 525	102, 030	49, 562	67, 961	-----
\$2,000 to \$3,000 taxed.....	737, 758	84, 747	32, 566	17, 709	82, 991	33, 999	119, 647	-----
\$3,000 to \$4,000 free <sup>4</sup> .....	1, 089, 138	445, 645	83, 886	43, 775	125, 381	83, 676	101, 250	-----
\$3,000 to \$4,000 taxed.....	485, 527	142, 841	50, 449	32, 775	86, 291	36, 735	114, 886	-----
\$4,000 to \$5,000 free <sup>4</sup> .....	476, 631	167, 454	47, 683	32, 870	57, 519	103, 869	55, 118	-----
\$4,000 to \$5,000 taxed.....	820, 222	388, 257	112, 509	73, 238	142, 344	56, 201	169, 061	-----
\$5,000 to \$6,000 free <sup>4</sup> .....	49, 039	20, 071	6, 124	6, 006	8, 301	47, 033	14, 086	-----
\$5,000 to \$6,000 taxed.....	518, 410	251, 172	91, 559	50, 117	70, 894	43, 076	92, 913	-----
\$6,000 to \$10,000 free <sup>4</sup> .....	47, 261	9, 849	5, 142	11, 528	9, 513	140, 916	26, 193	-----
\$6,000 to \$10,000 taxed.....	1, 270, 266	576, 696	274, 900	189, 587	176, 121	204, 285	279, 925	-----
\$10,000 to \$25,000.....	1, 408, 252	548, 435	394, 905	416, 400	217, 608	815, 446	459, 498	14, 216
\$25,000 to \$50,000.....	546, 883	179, 918	211, 801	294, 520	100, 320	666, 606	261, 489	9, 377
\$50,000 to \$100,000.....	284, 313	89, 293	153, 043	263, 066	54, 847	578, 784	169, 924	6, 595
\$100,000 to \$150,000.....	89, 137	25, 881	55, 549	139, 626	17, 344	271, 148	61, 187	2, 069
\$150,000 to \$300,000.....	87, 113	20, 646	74, 715	204, 079	16, 378	301, 487	57, 270	1, 860
\$300,000 to \$500,000.....	29, 581	8, 765	24, 709	143, 496	7, 150	150, 982	23, 409	1, 165
\$500,000 to \$1,000,000.....	16, 892	5, 367	22, 670	134, 734	6, 879	154, 877	21, 956	701
\$1,000,000 and over.....	16, 248	2, 431	14, 669	283, 946	4, 626	206, 723	23, 082	799
Per cent of total income of class derived from each source								
<b>Total</b> .....	39 27	14 04	6 81	9 35	5 70	15 76	8 92	0. 15
Under \$1,000 free <sup>4</sup> .....	23 97	32 86	2 97	2 27	17 49	10 77	9 67	-----
Under \$1,000 taxed.....	12 73	5 20	. 97	5 51	16 10	16 48	43 01	-----
\$1,000 to \$2,000 free <sup>4</sup> .....	60 10	19 06	1 76	1 18	7 82	3 71	6 37	-----
\$1,000 to \$2,000 taxed.....	80 14	5 25	1 45	. 53	5 39	. 95	6 29	-----
\$2,000 to \$3,000 free <sup>4</sup> .....	45 98	28 63	3 50	1 79	9 34	4 54	6 22	-----
\$2,000 to \$3,000 taxed.....	67 94	7 31	2 81	1 53	7 16	2 93	10 32	-----
\$3,000 to \$4,000 free <sup>4</sup> .....	55 21	22 59	4 25	2 22	6 36	4 24	5 13	-----
\$3,000 to \$4,000 taxed.....	51 14	15 04	5 31	3 45	9 09	3 87	12 10	-----
\$4,000 to \$5,000 free <sup>4</sup> .....	50 64	17 79	5 07	3 49	6 11	11 04	5 86	-----
\$4,000 to \$5,000 taxed.....	46 53	22 03	6 38	4 15	8 08	3 19	9 64	-----
\$5,000 to \$6,000 free <sup>4</sup> .....	32 53	13 32	4 06	4 04	5 51	31 20	9 34	-----
\$5,000 to \$6,000 taxed.....	46 36	22 47	8 19	4 48	6 34	3 85	8 31	-----
\$6,000 to \$10,000 free <sup>4</sup> .....	18 88	3 93	2 05	4 60	3 80	56 28	10 46	-----
\$6,000 to \$10,000 taxed.....	42 74	19 41	9 25	6 38	5 93	6 87	9 42	-----
\$10,000 to \$25,000.....	32 94	12 83	9 24	9 74	5 09	19 08	10 75	. 33
\$25,000 to \$50,000.....	24. 08	7. 92	9 33	12 97	4 42	29 35	11 52	. 41
\$50,000 to \$100,000.....	17 77	5. 58	9 57	16 44	3 43	36 18	10 62	. 41
\$100,000 to \$150,000.....	13. 47	3. 91	8 39	21 09	2 62	40 96	9 25	. 31
\$150,000 to \$300,000.....	11 41	2. 70	9 79	26. 73	2 14	39 49	7 50	. 24
\$300,000 to \$500,000.....	7 60	2. 25	6 35	1 84	1 84	38 79	6. 01	. 30
\$500,000 to \$1,000,000.....	4 64	1. 47	6 23	37 01	1 89	42 54	6 08	. 19
\$1,000,000 and over.....	2. 94	. 44	2 65	51. 39	. 84	37 41	4. 18	. 15

<sup>1</sup> Includes capital net gain from sale of assets held more than two years exempt from normal tax but subject to a special tax. (See Table 208.)

<sup>2</sup> Including fiduciary income.

<sup>3</sup> If not wholly exempt from tax

<sup>4</sup> Specific exemptions exceed net income.

Source: Statistics of Income, Report of the Commissioner of Internal Revenue, Treasury Department.

No. 210.—PERSONAL INCOME TAX RETURNS: INCOME DISTRIBUTED BY SOURCES, BY STATES AND TERRITORIES 1926

[All figures in thousands of dollars]

State or Territory	Total income	From personal industry and business				From property			
		Wages and salaries	Business	Partnerships	Profits from sale of real estate, securities, etc. <sup>1</sup>	Rents and royalties	Dividends	Interest and investment income <sup>2</sup>	Interest on Government obligations <sup>3</sup>
Total.....	25, 447, 436	9, 994, 315	3, 572, 896	1, 732, 581	2, 378, 543	1, 450, 760	4, 011, 590	2, 269, 970	36, 782
Alabama.....	164, 315	69, 339	23, 498	17, 845	12, 549	12, 210	14, 918	13, 789	167
Arizona.....	48, 393	20, 492	10, 256	3, 604	2, 561	3, 118	4, 334	3, 998	31
Arkansas.....	103, 176	38, 041	20, 131	11, 544	3, 850	11, 319	10, 300	7, 889	103
California.....	1, 812, 566	621, 921	286, 908	106, 494	198, 840	174, 579	248, 429	174, 003	1, 392
Colorado.....	189, 881	69, 308	33, 668	13, 706	11, 528	13, 972	27, 043	20, 334	322
Connecticut.....	485, 216	167, 978	63, 963	21, 741	47, 702	20, 299	114, 167	48, 026	740
Delaware.....	81, 642	22, 404	7, 009	2, 065	11, 373	2, 516	29, 861	5, 716	99
Dist. of Columbia.....	228, 404	107, 733	27, 117	9, 434	16, 422	12, 060	29, 475	25, 752	412
Florida.....	479, 047	150, 614	62, 054	36, 361	101, 923	33, 586	52, 220	41, 829	460
Georgia.....	212, 092	100, 836	29, 801	17, 824	10, 821	14, 673	25, 237	12, 782	119
Hawaii.....	50, 978	22, 746	4, 948	1, 351	4, 510	2, 587	11, 045	3, 768	24
Idaho.....	47, 997	15, 318	15, 378	4, 321	1, 148	2, 569	2, 875	3, 304	23
Illinois.....	2, 324, 472	969, 315	339, 879	145, 812	201, 418	166, 653	313, 696	185, 749	2, 251
Indiana.....	395, 507	166, 520	64, 130	30, 639	35, 987	28, 021	53, 838	15, 485	885
Iowa.....	249, 292	97, 255	51, 480	20, 346	8, 761	14, 655	29, 634	27, 011	150
Kansas.....	179, 437	54, 971	50, 877	10, 127	6, 369	28, 133	15, 563	13, 239	157
Kentucky.....	197, 183	80, 913	29, 096	13, 377	14, 334	10, 729	33, 608	14, 063	562
Louisiana.....	221, 811	88, 040	32, 197	19, 283	14, 088	17, 448	29, 874	20, 019	362
Maine.....	125, 202	38, 055	22, 474	5, 758	12, 973	4, 721	23, 770	17, 249	203
Maryland.....	417, 246	175, 213	45, 028	20, 664	32, 362	18, 488	71, 149	53, 113	756
Massachusetts.....	1, 326, 364	514, 166	174, 953	79, 640	113, 863	42, 125	273, 327	126, 145	2, 145
Michigan.....	1, 034, 820	423, 683	156, 503	50, 876	106, 831	59, 098	159, 846	76, 725	1, 257
Minnesota.....	337, 827	141, 542	53, 505	22, 082	16, 130	17, 488	55, 887	30, 699	493
Mississippi.....	84, 011	31, 551	18, 871	9, 136	5, 048	6, 296	6, 768	6, 272	69
Missouri.....	598, 793	268, 382	74, 816	32, 619	39, 847	37, 928	97, 106	46, 748	1, 347
Montana.....	69, 883	31, 588	16, 631	5, 932	1, 779	3, 731	5, 242	4, 906	73
Nebraska.....	155, 805	67, 317	38, 759	10, 810	6, 187	13, 136	13, 795	16, 201	101
Nevada.....	18, 755	8, 721	4, 176	1, 633	868	772	1, 517	1, 060	8
New Hampshire.....	75, 692	26, 800	13, 710	3, 665	5, 397	3, 378	15, 878	6, 747	116
New Jersey.....	1, 153, 350	491, 758	142, 013	62, 961	115, 272	48, 806	178, 204	113, 193	1, 143
New Mexico.....	29, 302	11, 327	7, 712	2, 402	1, 494	2, 000	1, 992	2, 361	13
New York.....	5, 599, 994	2, 114, 232	557, 889	501, 326	647, 707	185, 479	1, 019, 252	564, 103	10, 005
North Carolina.....	193, 773	86, 029	31, 768	10, 055	14, 138	12, 927	30, 437	8, 181	238
North Dakota.....	42, 794	15, 445	13, 845	4, 189	882	2, 207	2, 139	4, 065	23
Ohio.....	1, 342, 088	537, 832	200, 032	73, 527	100, 019	76, 621	238, 947	61, 998	3, 112
Oklahoma.....	277, 575	79, 912	52, 245	27, 405	24, 869	38, 437	27, 066	27, 313	327
Oregon.....	101, 061	65, 231	32, 194	11, 924	9, 717	11, 069	15, 317	15, 391	217
Pennsylvania.....	2, 498, 394	988, 341	351, 450	143, 816	263, 317	118, 618	412, 882	236, 591	3, 882
Rhode Island.....	176, 791	69, 103	19, 780	7, 895	14, 185	7, 672	38, 618	19, 212	317
South Carolina.....	69, 298	31, 756	11, 832	5, 177	2, 455	4, 193	7, 427	6, 377	31
South Dakota.....	45, 759	18, 109	13, 821	4, 013	947	2, 872	2, 327	3, 617	53
Tennessee.....	200, 788	86, 404	27, 702	18, 770	12, 436	13, 694	28, 242	13, 349	191
Texas.....	653, 718	225, 040	129, 187	53, 052	52, 274	80, 994	60, 746	56, 619	806
Utah.....	63, 065	30, 070	11, 182	3, 636	1, 874	2, 523	8, 934	4, 454	93
Vermont.....	48, 057	16, 521	8, 334	3, 127	2, 745	1, 743	9, 479	6, 050	59
Virginia.....	210, 904	89, 476	27, 407	14, 741	14, 474	12, 825	35, 260	16, 358	362
Washington.....	283, 370	132, 541	52, 538	16, 241	13, 997	16, 847	27, 625	23, 683	299
West Virginia.....	168, 449	73, 274	25, 350	11, 003	10, 210	10, 660	30, 197	7, 332	422
Wisconsin.....	470, 853	201, 382	75, 906	25, 937	28, 909	21, 690	63, 279	53, 461	289
Wyoming.....	37, 246	16, 770	9, 163	2, 795	579	2, 097	2, 817	2, 981	43

<sup>1</sup> Includes capital net gain from sale of assets held more than two years exempt from normal tax but subject to special tax.

<sup>2</sup> Including fiduciary income.

<sup>3</sup> If not wholly exempt from tax.

<sup>4</sup> Includes Alaska.

Source: Statistics of Income, Report of the Commissioner of Internal Revenue, Treasury Department.

## No. 211.—PERSONAL INCOME TAX RETURNS:

NOTE.—See headnote Table 194 The net income here shown is subject to

State or Territory	Number of returns						Net income in thousands of dollars		
	1921	1922	1923	1924	1925	1926	1921	1922	1923
Total.....	6, 662, 176	6, 787, 481	7, 698, 321	7, 369, 788	4, 171, 051	4, 138, 092	19, 577, 213	21, 336, 213	24, 777, 466
Alabama.....	43, 009	43, 612	51, 049	47, 591	26, 278	28, 540	117, 109	126, 908	159, 064
Alaska.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Arizona.....	18, 477	20, 079	22, 899	21, 301	10, 104	10, 509	48, 310	48, 460	59, 526
Arkansas.....	33, 830	32, 072	35, 788	35, 484	20, 567	19, 363	92, 617	95, 626	109, 794
California.....	386, 082	420, 923	517, 109	511, 218	305, 074	315, 344	1, 168, 021	1, 357, 525	1, 697, 903
Colorado.....	69, 676	67, 463	72, 366	73, 350	35, 808	35, 110	174, 491	184, 572	200, 573
Connecticut.....	123, 269	128, 431	149, 820	143, 406	74, 595	81, 449	343, 017	401, 720	473, 805
Delaware.....	15, 889	17, 141	19, 202	18, 892	9, 131	9, 301	43, 677	53, 981	57, 187
Dist of Col.....	89, 966	77, 923	75, 796	77, 836	43, 293	40, 024	248, 346	231, 329	221, 951
Florida.....	42, 249	41, 531	49, 591	64, 306	76, 213	56, 109	119, 557	132, 047	156, 500
Georgia.....	67, 719	69, 988	71, 341	62, 651	37, 410	36, 744	180, 311	199, 433	222, 888
Hawaii.....	11, 481	11, 597	12, 421	12, 387	9, 306	9, 146	37, 840	37, 123	42, 829
Idaho.....	22, 976	23, 369	25, 012	21, 436	12, 907	11, 617	49, 738	51, 167	58, 393
Illinois.....	611, 558	614, 449	676, 489	652, 501	357, 448	374, 725	1, 833, 920	1, 927, 637	2, 272, 960
Indiana.....	150, 300	153, 469	178, 831	156, 845	80, 300	77, 126	406, 242	426, 366	510, 507
Iowa.....	111, 483	131, 870	135, 864	110, 404	50, 379	49, 476	313, 763	359, 563	363, 242
Kansas.....	88, 785	86, 915	86, 291	84, 080	34, 284	32, 732	217, 237	211, 062	215, 347
Kentucky.....	69, 496	69, 666	79, 091	72, 119	37, 315	32, 821	192, 274	200, 049	214, 416
Louisiana.....	67, 960	66, 872	67, 440	67, 658	40, 695	38, 996	197, 897	203, 605	218, 802
Maine.....	44, 397	48, 041	48, 435	42, 254	18, 444	19, 709	124, 629	129, 857	142, 964
Maryland.....	112, 963	110, 896	127, 770	126, 226	66, 152	67, 160	368, 691	386, 830	401, 260
Massachusetts.....	388, 442	397, 241	415, 100	378, 049	221, 530	224, 042	1, 153, 008	1, 237, 893	1, 413, 016
Michigan.....	250, 147	267, 953	350, 072	323, 733	188, 669	176, 804	657, 780	796, 412	1, 041, 933
Minnesota.....	124, 501	122, 885	134, 360	128, 237	71, 291	64, 227	340, 834	348, 741	372, 377
Mississippi.....	25, 614	26, 897	27, 851	27, 213	16, 985	17, 196	60, 104	76, 982	83, 494
Missouri.....	172, 519	173, 728	192, 282	186, 784	109, 059	99, 509	499, 911	526, 388	605, 276
Montana.....	36, 907	38, 044	42, 809	44, 011	19, 239	16, 191	81, 528	83, 904	99, 256
Nebraska.....	71, 853	67, 503	70, 545	66, 512	35, 661	33, 532	179, 906	177, 969	195, 153
Nevada.....	9, 719	9, 723	10, 467	10, 664	6, 164	4, 797	22, 456	22, 397	25, 712
New Hampshire.....	32, 410	31, 787	36, 876	31, 532	16, 413	15, 276	82, 352	85, 577	104, 852
New Jersey.....	269, 096	301, 834	293, 503	299, 904	150, 874	176, 320	856, 856	1, 082, 262	1, 050, 741
New Mexico.....	11, 780	11, 553	12, 202	11, 595	7, 203	6, 513	27, 838	28, 983	32, 668
New York.....	1, 066, 637	1, 102, 748	1, 221, 654	1, 215, 640	751, 941	752, 044	3, 617, 757	4, 110, 589	4, 565, 315
North Carolina.....	44, 161	58, 009	68, 191	68, 864	38, 740	35, 332	127, 993	171, 929	206, 639
North Dakota.....	18, 440	18, 750	18, 054	19, 160	11, 715	9, 881	43, 033	43, 767	42, 974
Ohio.....	367, 096	364, 988	463, 017	418, 048	224, 643	231, 196	1, 060, 028	1, 138, 935	1, 457, 697
Oklahoma.....	69, 381	72, 063	70, 189	63, 357	40, 825	37, 497	191, 816	217, 556	221, 293
Oregon.....	62, 804	61, 879	69, 123	66, 669	32, 542	30, 955	159, 675	161, 226	189, 854
Pennsylvania.....	621, 103	587, 770	740, 478	713, 427	376, 923	397, 575	1, 937, 292	2, 005, 570	2, 478, 751
Rhode Island.....	48, 057	50, 076	66, 965	48, 792	29, 123	26, 362	157, 568	171, 410	214, 750
South Carolina.....	25, 160	26, 830	28, 225	28, 090	15, 727	13, 809	68, 256	72, 756	87, 031
South Dakota.....	21, 681	21, 465	21, 928	26, 506	17, 086	12, 414	47, 087	48, 950	50, 171
Tennessee.....	60, 949	63, 555	69, 081	66, 981	34, 689	35, 495	170, 970	190, 724	226, 034
Texas.....	200, 138	186, 865	200, 683	192, 735	109, 448	111, 438	536, 897	545, 902	613, 495
Utah.....	26, 128	27, 325	30, 242	28, 685	16, 101	13, 568	62, 713	67, 745	79, 943
Vermont.....	17, 746	17, 901	21, 752	20, 618	9, 559	8, 646	47, 562	51, 653	64, 800
Virginia.....	76, 257	71, 523	77, 451	71, 597	37, 507	37, 797	208, 332	207, 277	242, 687
Washington.....	115, 688	123, 216	136, 057	138, 181	78, 030	161, 950	1, 262, 110	1, 300, 523	1, 351, 985
West Virginia.....	75, 277	69, 501	89, 263	75, 037	35, 810	32, 544	207, 157	196, 777	260, 843
Wisconsin.....	148, 457	160, 519	194, 050	179, 275	110, 485	99, 251	379, 751	401, 670	547, 040
Wyoming.....	22, 413	21, 943	23, 246	22, 947	10, 336	8, 980	51, 052	48, 827	57, 876

1 Alaska included in State of Washington.

## BY STATES AND TERRITORIES, 1921 TO 1926

deduction of exemptions to give net income subject to tax, see Tables 205 and 212

Net income in thousands of dollars—Contd.			Tax yield in thousands of dollars						State or Territory
1924	1925	1926	1921	1922	1923	1924	1925	1926	
25,656,153	21,894,576	21,958,506	719,387	861,057	661,666	704,265	734,555	732,471	Total.
159,919 (1)	130,025 (1)	136,523 (1)	2,714 (1)	2,892 (1)	2,841 (1)	2,771 (1)	2,326 (1)	2,440 (1)	Alabama.
58,273	41,383	41,717	517	687	603	512	545	499	Alaska.
110,255	84,474	84,661	1,866	2,314	2,050	1,458	1,434	1,482	Arizona.
1,741,064	1,490,420	1,571,074	36,438	43,779	39,959	37,881	37,127	40,239	Arkansas.
205,088	150,363	154,805	3,863	4,870	3,268	3,163	2,841	2,959	Colorado.
478,174	404,498	433,777	10,633	13,131	11,199	12,594	13,534	13,751	Connecticut.
64,180	54,899	70,544	1,284	1,834	1,402	2,433	2,780	5,101	Delaware.
253,312	200,354	198,056	7,705	8,337	6,098	5,766	5,718	5,527	District of Columbia.
250,964	649,932	322,601	2,929	4,060	3,694	7,229	28,858	10,416	Florida.
210,908	177,204	171,146	3,893	4,558	3,766	3,399	3,530	2,888	Georgia.
46,395	41,465	42,950	1,452	1,387	1,319	1,482	944	1,096	Hawaii.
52,302	40,444	39,888	494	479	426	261	171	184	Idaho.
2,413,605	1,975,436	1,995,011	68,574	77,196	62,880	66,583	64,792	64,214	Illinois.
461,717	344,207	358,625	8,974	9,579	7,883	6,656	7,509	9,935	Indiana.
298,734	198,736	203,015	5,838	5,466	4,127	3,124	3,111	2,918	Iowa.
203,034	141,511	153,673	3,392	3,246	2,119	1,918	2,222	2,756	Kansas.
238,094	180,217	169,101	4,297	4,677	3,724	3,806	3,300	3,226	Kentucky.
221,133	185,585	185,479	5,305	5,354	4,439	3,529	3,850	3,312	Louisiana.
135,221	97,928	107,979	3,975	3,897	2,786	2,568	2,719	3,419	Maine.
467,226	362,485	374,759	14,537	15,364	11,540	12,073	11,623	11,517	Maryland.
1,320,157	1,132,290	1,147,576	46,535	57,781	42,528	40,857	41,052	37,116	Massachusetts.
1,045,850	910,910	905,815	24,198	34,965	28,051	30,984	33,263	32,408	Michigan.
375,589	305,945	296,414	8,697	9,419	7,084	6,721	6,126	6,475	Minnesota.
82,653	73,751	64,860	1,069	1,804	1,686	1,156	989	644	Mississippi.
632,533	533,836	512,801	14,660	15,973	13,085	12,373	14,247	13,497	Missouri.
107,242	66,825	59,290	1,052	1,029	721	731	580	562	Montana.
189,372	141,873	134,154	3,328	3,165	2,534	1,848	1,733	1,382	Nebraska.
27,534	19,631	16,796	329	259	241	184	178	195	Nevada.
94,133	70,118	66,744	1,759	2,134	1,643	1,377	1,219	1,201	New Hampshire.
1,177,421	943,673	1,032,297	33,258	40,983	30,553	31,941	32,383	32,858	New Jersey.
31,951	23,995	24,632	352	384	337	224	227	227	New Mexico.
5,144,766	4,903,229	4,984,020	210,768	273,960	192,312	236,775	252,158	247,164	New York.
200,589	161,624	153,232	3,760	4,909	4,767	3,778	3,179	3,398	North Carolina.
48,690	35,695	33,169	486	453	276	268	163	180	North Dakota.
1,403,749	1,141,453	1,146,496	33,574	39,310	33,062	32,062	30,321	32,839	Ohio.
211,272	219,961	223,037	4,207	6,414	3,910	3,794	6,897	8,135	Oklahoma.
189,884	132,023	135,030	4,932	4,240	2,892	2,025	1,788	2,175	Oregon.
2,648,133	2,031,306	2,138,169	84,660	93,574	73,267	77,874	73,364	76,887	Pennsylvania.
191,556	160,955	155,051	9,236	9,352	6,658	6,722	5,818	5,546	Rhode Island.
79,614	57,662	53,060	1,247	1,268	1,555	727	431	420	South Carolina.
66,124	93,971	38,153	525	549	350	306	192	209	South Dakota.
224,184	168,198	175,714	3,984	4,903	4,284	3,420	3,126	3,652	Tennessee.
638,109	496,820	547,563	12,668	14,120	10,678	10,236	9,767	12,682	Texas.
82,088	61,635	53,832	843	956	726	599	660	629	Utah.
63,631	45,857	42,209	1,156	1,574	1,333	978	920	821	Vermont.
231,056	170,257	176,025	4,161	4,919	3,669	3,413	2,981	3,495	Virginia.
1,393,962	1,272,545	1,245,592	14,910	15,148	13,926	13,231	12,717	12,801	Washington.
227,000	144,777	141,397	4,579	4,595	3,876	2,796	2,134	2,304	West Virginia.
496,660	418,618	407,643	8,971	9,127	9,019	7,344	6,799	8,418	Wisconsin.
60,752	33,482	31,751	783	687	521	414	257	263	Wyoming.

Source: Statistics of Income, Report of the Commissioner of Internal Revenue, Treasury Department.

## No. 212.—PERSONAL INCOME TAX RETURNS:

[All money figures, except average per return and per capita tax, in thousands of dollars]

State or Territory	Number of re- turns	Net income <sup>1</sup>	Prior year loss deduc- tions	Exemptions from normal tax				Normal tax
				Personal exemp- tion	Divi- dends	Interest on Govt. obliga- tions <sup>2</sup>	Capital net gain <sup>3</sup>	
Total.....	4, 138, 092	21, 958, 506	27, 412	12, 124, 076	4, 011, 590	36, 782	912, 918	200, 599
Alabama.....	28, 540	136, 523	119	88, 379	14, 918	167	2, 384	1, 132
Arizona.....	10, 509	41, 717	223	29, 682	4, 354	31	195	286
Arkansas.....	19, 363	84, 681	105	63, 120	10, 300	103	101	594
California.....	315, 344	1, 571, 674	3, 870	906, 934	248, 429	1, 392	72, 430	14, 887
Colorado.....	35, 110	154, 805	147	102, 735	27, 043	322	3, 698	992
Connecticut.....	81, 449	433, 777	278	231, 805	114, 167	740	16, 401	3, 271
Delaware.....	9, 301	70, 544	4	26, 270	29, 861	99	3, 762	549
District of Columbia.....	40, 024	198, 056	97	107, 039	29, 475	412	5, 485	1, 901
Florida.....	56, 109	322, 001	894	172, 472	52, 220	460	11, 961	3, 408
Georgia.....	36, 744	171, 146	237	112, 186	25, 237	119	1, 870	1, 289
Hawaii.....	9, 146	42, 950	6	30, 011	11, 045	24	1, 109	256
Idaho.....	11, 617	39, 888	65	35, 552	2, 875	23	-----	162
Illinois.....	374, 725	1, 995, 011	1, 963	1, 066, 544	313, 696	2, 251	73, 073	19, 696
Indiana.....	77, 126	358, 625	153	230, 384	53, 838	885	20, 703	2, 662
Iowa.....	49, 476	203, 015	147	149, 206	29, 634	150	1, 627	1, 153
Kansas.....	32, 732	153, 673	253	102, 587	15, 563	157	1, 072	1, 354
Kentucky.....	32, 821	169, 101	90	99, 918	33, 608	562	1, 257	1, 257
Louisiana.....	38, 996	185, 479	356	115, 130	29, 874	362	2, 066	1, 524
Maine.....	19, 709	107, 979	253	58, 999	23, 770	203	6505	805
Maryland.....	67, 160	374, 759	505	196, 477	71, 149	756	13, 093	3, 419
Massachusetts.....	224, 042	1, 147, 576	405	638, 850	273, 327	2, 145	43, 952	9, 492
Michigan.....	176, 804	905, 815	369	493, 874	159, 846	1, 257	43, 730	7, 910
Minnesota.....	64, 227	296, 414	241	190, 772	55, 837	493	4, 678	2, 082
Mississippi.....	17, 196	64, 860	193	56, 206	6, 763	69	4, 777	368
Missouri.....	99, 509	512, 801	654	299, 651	97, 106	1, 347	16, 441	4, 096
Montana.....	16, 191	59, 290	397	45, 464	5, 242	70	196	322
Nebraska.....	33, 532	134, 154	152	106, 368	13, 795	101	515	777
Nevada.....	4, 797	16, 795	19	11, 905	1, 517	8	31	94
New Hampshire.....	15, 276	66, 744	64	42, 834	15, 873	116	1, 455	381
New Jersey.....	176, 320	1, 032, 288	599	519, 393	178, 204	1, 143	37, 894	10, 143
New Mexico.....	6, 513	24, 632	88	19, 195	1, 993	13	327	146
New York.....	763, 044	4, 984, 020	5, 992	2, 204, 626	1, 019, 252	10, 005	288, 610	58, 175
North Carolina.....	35, 332	153, 232	57	110, 693	30, 437	238	2, 589	934
North Dakota.....	9, 881	33, 169	33	31, 699	2, 139	23	59	143
Ohio.....	231, 196	1, 146, 496	1, 204	682, 471	238, 947	3, 112	45, 280	8, 391
Oklahoma.....	37, 497	223, 037	625	126, 320	27, 066	327	10, 482	2, 545
Oregon.....	30, 955	135, 030	183	89, 116	15, 317	217	3, 831	950
Pennsylvania.....	397, 575	2, 138, 169	1, 481	1, 168, 767	412, 882	3, 882	123, 593	18, 515
Rhode Island.....	26, 362	155, 051	78	76, 639	38, 618	347	4, 440	1, 332
South Carolina.....	13, 809	53, 060	56	43, 987	7, 427	31	68	252
South Dakota.....	12, 414	38, 153	15	39, 824	2, 327	53	( <sup>4</sup> )	138
Tennessee.....	35, 495	175, 714	384	109, 462	28, 242	191	3, 392	1, 402
Texas.....	111, 433	547, 562	3, 407	318, 280	60, 746	806	18, 321	5, 305
Utah.....	13, 563	53, 832	75	41, 255	8, 934	93	442	264
Vermont.....	8, 646	42, 209	53	24, 898	9, 479	59	684	265
Virginia.....	37, 797	176, 025	195	115, 073	35, 260	362	3, 500	1, 126
Washington <sup>7</sup> .....	61, 950	245, 592	458	167, 823	27, 625	299	2, 978	1, 484
West Virginia.....	32, 544	141, 397	57	96, 679	30, 197	422	2, 995	725
Wisconsin.....	99, 251	407, 643	48	300, 394	63, 279	289	12, 397	2, 595
Wyoming.....	8, 930	31, 751	60	25, 308	2, 817	43	3	170

<sup>1</sup> Capital net gain from sale of assets held more than two years is included in net income, but capital net loss from sale of assets held more than two years and net loss for prior year are not deducted.

<sup>2</sup> If not wholly exempt from tax

<sup>3</sup> Relates to net gain from sale of assets held for more than two years exempt from normal tax but subject to a special tax

<sup>4</sup> Tax (12½ per cent) on capital net gain from sale of assets held for more than two years, less tax credit of 12½ per cent on capital net loss on such sales.

## No. 212.—PERSONAL INCOME TAX RETURNS:

[All money figures, except average per return and per capita tax, in thousands of dollars]

State or Territory	Number of re- turns	Net income <sup>1</sup>	Prior year loss deduc- tions	Exemptions from normal tax				Normal tax
				Personal exemp- tion	Divi- dends	Interest on Govt. obliga- tions <sup>2</sup>	Capital net gain <sup>3</sup>	
<b>Total</b> .....	4, 138, 092	21, 958, 506	27, 412	12, 124, 076	4, 011, 590	36, 782	912, 918	200, 599
Alabama.....	28, 540	136, 523	119	88, 379	14, 918	167	2, 384	1, 132
Arizona.....	10, 509	41, 717	223	29, 682	4, 354	31	195	286
Arkansas.....	19, 363	84, 681	105	63, 120	10, 300	103	101	594
California.....	315, 344	1, 571, 674	3, 870	906, 934	248, 429	1, 392	72, 430	14, 887
Colorado.....	35, 110	154, 805	147	102, 735	27, 043	322	3, 698	992
Connecticut.....	81, 449	433, 777	278	231, 805	114, 167	740	16, 401	3, 271
Delaware.....	9, 301	70, 544	4	26, 270	29, 861	99	3, 762	549
District of Columbia.....	40, 024	198, 056	97	107, 039	29, 475	412	5, 485	1, 901
Florida.....	56, 109	322, 001	894	172, 472	52, 220	460	11, 961	3, 408
Georgia.....	36, 744	171, 146	237	112, 186	25, 237	119	1, 870	1, 289
Hawaii.....	9, 146	42, 950	6	30, 011	11, 045	24	1, 109	256
Idaho.....	11, 617	39, 888	65	35, 552	2, 875	23	-----	162
Illinois.....	374, 725	1, 995, 011	1, 963	1, 066, 544	313, 696	2, 251	73, 073	19, 696
Indiana.....	77, 126	358, 625	153	230, 384	53, 838	885	20, 703	2, 662
Iowa.....	49, 476	203, 015	147	149, 206	29, 634	150	1, 627	1, 153
Kansas.....	32, 732	153, 673	253	102, 587	15, 563	157	1, 072	1, 354
Kentucky.....	32, 821	169, 101	90	99, 918	33, 608	562	1, 257	1, 257
Louisiana.....	38, 996	185, 479	356	115, 130	29, 874	362	2, 066	1, 524
Maine.....	19, 709	107, 979	253	58, 999	23, 770	203	6505	805
Maryland.....	67, 160	374, 759	505	196, 477	71, 149	756	13, 093	3, 419
Massachusetts.....	224, 042	1, 147, 576	405	638, 850	273, 327	2, 145	43, 952	9, 492
Michigan.....	176, 804	905, 815	369	493, 874	159, 846	1, 257	43, 730	7, 910
Minnesota.....	64, 227	296, 414	241	190, 772	55, 837	493	4, 678	2, 082
Mississippi.....	17, 196	64, 860	193	56, 206	6, 763	69	4, 477	368
Missouri.....	99, 509	512, 801	654	299, 651	97, 106	1, 347	16, 441	4, 096
Montana.....	16, 191	59, 290	397	45, 464	5, 242	70	196	322
Nebraska.....	33, 532	134, 154	152	106, 368	13, 795	101	515	777
Nevada.....	4, 797	16, 795	19	11, 905	1, 517	8	31	94
New Hampshire.....	15, 276	66, 744	64	42, 834	15, 873	116	1, 455	381
New Jersey.....	176, 320	1, 032, 288	599	519, 393	178, 204	1, 143	37, 894	10, 143
New Mexico.....	6, 513	24, 632	88	19, 195	1, 993	13	327	146
New York.....	763, 044	4, 984, 020	5, 992	2, 204, 626	1, 019, 252	10, 005	288, 610	58, 175
North Carolina.....	35, 332	153, 232	57	110, 693	30, 437	238	2, 589	934
North Dakota.....	9, 881	33, 169	33	31, 699	2, 139	23	59	143
Ohio.....	231, 196	1, 146, 496	1, 204	682, 471	238, 947	3, 112	45, 280	8, 391
Oklahoma.....	37, 497	223, 037	625	126, 320	27, 066	327	10, 482	2, 545
Oregon.....	30, 955	135, 030	183	89, 116	15, 317	217	3, 831	950
Pennsylvania.....	397, 575	2, 138, 169	1, 481	1, 168, 767	412, 882	3, 882	123, 593	18, 515
Rhode Island.....	26, 362	155, 051	78	76, 639	38, 618	347	4, 440	1, 332
South Carolina.....	13, 809	53, 060	56	43, 987	7, 427	31	68	252
South Dakota.....	12, 414	38, 153	15	39, 824	2, 327	53	( <sup>4</sup> )	138
Tennessee.....	35, 495	175, 714	384	109, 462	28, 242	191	3, 392	1, 402
Texas.....	111, 433	547, 562	3, 407	318, 280	60, 746	806	18, 321	5, 305
Utah.....	13, 563	53, 832	75	41, 255	8, 934	93	442	264
Vermont.....	8, 646	42, 209	53	24, 898	9, 479	59	684	265
Virginia.....	37, 797	176, 025	195	115, 073	35, 260	362	3, 500	1, 126
Washington <sup>7</sup> .....	61, 950	245, 592	458	167, 823	27, 625	299	2, 978	1, 484
West Virginia.....	32, 544	141, 397	57	96, 679	30, 197	422	2, 995	725
Wisconsin.....	99, 251	407, 643	48	300, 394	63, 279	289	12, 397	2, 595
Wyoming.....	8, 930	31, 751	60	25, 308	2, 817	43	3	170

<sup>1</sup> Capital net gain from sale of assets held more than two years is included in net income, but capital net loss from sale of assets held more than two years and net loss for prior year are not deducted.

<sup>2</sup> If not wholly exempt from tax

<sup>3</sup> Relates to net gain from sale of assets held for more than two years exempt from normal tax but subject to a special tax

<sup>4</sup> Tax (12½ per cent) on capital net gain from sale of assets held for more than two years, less tax credit of 12½ per cent on capital net loss on such sales.

# No. 213.—FEDERAL ESTATE TAX RETURNS: RETURNS OF RESIDENT DECEDENTS DISTRIBUTED BY SIZE OF NET ESTATE

[All money figures, except average amount of tax per return, in thousands of dollars]

	Grand total					
	1916-1922	1923	1924	1925	1926	1927
Number of returns.....	54,433	13,013	12,403	14,013	13,142	9,353
Gross estate, total.....	11,665,014	2,494,978	2,350,249	2,958,363	3,886,267	3,146,280
Real estate.....	(1)	615,633	553,434	651,229	647,836	573,454
Bonds exempt or partially exempt.....	(1)	193,398	192,470	228,511	293,899	233,887
Other bonds.....	(1)	179,742	155,050	232,173	253,583	230,897
Capital stock in corporations.....	(1)	780,679	738,363	973,886	1,266,396	1,223,992
All other.....	(1)	725,466	710,932	872,564	924,553	884,060
Deductions, total.....	4,789,884	1,211,400	1,180,284	1,408,612	1,504,212	1,490,036
Specific exemption.....	2,721,650	650,650	620,000	700,650	689,400	798,910
Charitable, public, and similar bequests.....	460,384	73,592	65,928	116,360	226,708	130,975
Property from an estate taxed within 5 years.....	132,455	55,915	67,713	58,811	71,065	73,482
Funeral and administrative expenses, debts, mortgages, etc.....	1,475,395	391,605	366,608	444,916	463,499	440,175
Insurance exemption.....		39,638	40,035	57,875	53,540	46,494
Net taxable estate <sup>1</sup> .....	7,028,455	1,347,092	1,261,802	1,621,008	1,951,969	1,735,840
Total tax.....	466,977	68,090	65,900	96,931	138,056	100,532
Tax credit <sup>2</sup> .....				10,707	36,732	59,601
Net tax.....	466,977	68,090	65,900	86,224	101,324	40,931
Average tax per return (dollars).....	8,579	5,232	5,313	6,153	7,710	4,376
Average rate of tax on net taxable estate (per cent).....	6.64	5.05	5.22	5.31	5.19	2.36

  

	1927 No net estate	1927 · Estate of—					
		Under \$50,000	\$50,000— \$200,000	\$200,000— \$600,000	\$600,000— \$1,000,000	\$1,000,000— \$5,000,000	\$5,000,000 and over
Number of returns.....	2,392	2,690	2,491	1,187	236	274	33
Gross estate, total.....	295,305	350,058	608,425	625,617	301,237	628,551	337,097
Real estate.....	91,135	99,068	132,540	107,772	46,552	74,423	21,064
Bonds exempt or partially exempt.....	11,643	15,839	35,339	43,955	28,651	70,425	28,034
Other bonds.....	14,287	26,934	54,940	53,807	24,322	43,564	13,043
Capital stock in corporations.....	59,296	85,287	187,258	242,507	132,679	320,365	196,600
All other.....	118,944	122,930	198,048	177,575	69,033	119,774	77,756
Deductions, total.....	374,892	292,019	337,871	221,959	83,251	118,685	61,359
Specific exemption.....	203,000	216,400	218,350	106,310	26,550	25,250	3,050
Charitable, public, and similar bequests.....	35,148	11,013	16,816	19,647	15,690	19,915	12,746
Property from an estate taxed within 5 years.....	29,663	4,450	11,455	13,063	3,020	6,288	5,543
Funeral and administrative expenses, debts, mortgages, etc.....	98,068	51,400	78,504	74,359	34,796	63,317	39,731
Insurance exemption.....	9,013	8,756	12,746	8,580	3,195	3,915	289
Net taxable estate <sup>1</sup> .....	479,587	58,039	270,554	403,658	217,986	509,866	275,738
Total tax.....		583	4,641	12,101	9,341	36,332	37,534
Tax credit <sup>2</sup> .....		269	2,770	7,346	5,742	20,713	22,761
Net tax.....		314	1,871	4,755	3,599	15,619	14,773
Average tax per return (dollars).....		117	751	4,006	12,584	57,003	447,666
Average rate of tax on net taxable estate (per cent).....		.54	.69	1.18	1.65	3.06	5.35

<sup>1</sup> Not available.

<sup>2</sup> In arriving at grand total net taxable estate the grand total deductions shown are diminished by the deductions in excess of gross estate shown for 1927 in column "No net estate."

<sup>3</sup> Credit for payments of estate, inheritance, legacy, or succession taxes actually made to any of the several States or Territories.

<sup>4</sup> Deductions in excess of gross estate.

Source: Statistics of Income, Report of the Commissioner of Internal Revenue, Treasury Department.

No. 214.—PUBLIC DEBT OF THE UNITED STATES: DEBT OUTSTANDING, BY SPECIFIC LOANS, JUNE 30, 1928

PUBLIC DEBT

209

Title and authorizing act	Date of loan	When redeemable or payable	Rate of interest	Interest payable	Average price received	Amount authorized	Amount issued	Amount outstanding
<b>INTEREST-BEARING DEBT</b>								
Consols of 1890— Act of Mar 14, 1900.....	Apr. 1, 1900	After Apr 1, 1930...	<i>Per cent</i> 2	Jan., Apr., July, and Oct. 1	\$100 5116..	\$839, 146, 340	\$646, 250, 150	\$599, 724, 050
Panama Canal Loan: Acts of June 28, 1902, and Dec 21, 1905.....	{ Aug 1, 1903 [Nov. 1, 1908	{ After Aug 1, 1916, on Aug. 1, 1936. After Nov. 1, 1918, on Nov. 1, 1938.	{ 2 2	{ Feb., May, Aug., and Nov. 1. do	{ 103 513... 102 436...	{ 130, 000, 000 290, 569, 000	{ 54, 631, 980 30, 000, 000	{ 48, 954, 180 25, 947, 400
Acts of Aug. 5, 1909, Feb. 4, 1910, and Mar. 2, 1911.....	June 1, 1911	On June 1, 1961...	3	Mar., June, Sept., and Dec. 1	102 582...	290, 569, 000	50, 000, 000	49, 800, 000
Pedal Savings bonds: Act of June 25, 1910.....	Jan. 1, July 1, 1911-1928	On and after 1 year, 20 years from issue.	2½	Jan and July 1...	Par.....	Indefinite	74, 812, 380	14, 812, 380
Conversion bonds Act of Dec. 23, 1913.....	Jan. 1, 1916 and 1917	30 years from issue.	3	Jan., Apr., July, and Oct 1	Exchange at par	-----	28, 894, 500	28, 894, 500
First Liberty Loan: First 3½'s, act of Apr. 24, 1917.....	June 15, 1917	On and after June 15, 1932; on June 15, 1947.	3½	-----	(Par.....	5, 538, 945, 460	1, 980, 455, 560	1, 397, 686, 200
First 4's, acts of Apr. 24, 1917 and Sept. 24, 1917.....	Nov. 15, 1917	do.....	4	June and Dec 15...	Conversion at par.	1, 989, 455, 550	568, 318, 450	5, 155, 650
First 4½'s; same acts.....	May 9, 1918	do.....	4½	-----	do.....	1, 989, 455, 550	555, 212, 300	532, 820, 150
First second 4½'s; same acts.....	Oct. 24, 1918	do.....	4½	-----	do.....	1, 413, 566, 550	3, 492, 150	3, 492, 150
Third Liberty Loan: Act of Sept. 24, 1917¹.....	May 9, 1918	On Sept 15, 1928...	4½	Mar. and Sept. 15.	Par.....	8, 192, 135, 000	4, 175, 650, 050	1, 228, 848, 600
Fourth Liberty Loan: Act of Sept. 24, 1917¹.....	Oct. 24, 1918	On and after Oct 15, 1932; on Oct 15, 1938	4½	Apr and Oct 15...	do.....	12, 016, 484, 950	6, 964, 581, 100	6, 294, 043, 600
Treasury bonds, act of Sept. 24, 1917:¹ 4½ per cent bonds of 1947-1962.....	Oct. 16, 1922	On and after Oct 15, 1947; on Oct 15, 1952.	4½	do.....	{ Par..... Exchange at par.	{ 619, 314, 850 144, 647, 450	{ 619, 314, 850 144, 647, 450	{ 762, 320, 300
4 per cent bonds of 1944-1954.....	Dec. 15, 1924	On and after Dec 15, 1944, on Dec 15, 1954.	4	June and Dec 15...	{ Par..... Exchange at par.	{ 224, 513, 500 532, 420, 300	{ 224, 513, 500 532, 420, 300	{ 1, 045, 401, 500
3½ per cent bonds of 1946-1956.....	Mar. 15, 1928	On and after Mar 15, 1946, on Mar 15, 1956.	3½	Mar and Sept 15...	{ 100 50 100 50	{ 290, 154, 700 494, 898, 100	{ 290, 154, 700 494, 898, 100	{ 491, 212, 100

¹ As amended.



## PUBLIC DEBT

No. 214.—PUBLIC DEBT OF THE UNITED STATES: DEBT OUTSTANDING, BY SPECIFIC LOANS, JUNE 30, 1928—Continued

Title and authorizing act	Date of loan	When redeemable or payable	Rate of interest	Interest payable	Average price received	Amount authorized	Amount issued	Amount outstanding
INTEREST-BEARING DEBT—cont'd								
Treasury bonds, act of Sept. 24, 1917—Cont'd. 3½ per cent bonds of 1943-1947.	June 15, 1927	On and after June 15, 1943, on June 15, 1947.	3½	June and Dec 15	{ \$100 50 Exchange at par.	\$249,598,300 245,256,450	\$249,598,300 245,256,450	\$494,704,750
Treasury notes, act of Sept. 24, 1917-1 Series A-1930-1932	Mar. 15, 1927	On and after Mar. 15, 1930, on Mar. 15, 1932	3½	Mar. and Sept. 15	do	1,360,456,450	1,360,456,450	1,215,153,200
Series B-1930-1932	Sept. 15, 1927	On and after Sept 15, 1930, on Sept 15, 1932.	3½	do	Par. Exchange at 100 125	250,522,600 308,973,100	250,522,600 308,973,100	615,095,700
Series C-1930-1932	Jan 16, 1928	On and after Dec 15, 1930, on Dec 15, 1932	3½	June and Dec. 15	Exchange at par	607,399,650	607,399,650	607,399,650
Adjusted service— Series A-1930	Jan 1, 1925	After Jan. 1, 1926, on Jan. 1, 1930.	4	Jan. 1	Par.	50,000,000	50,000,000	31,500,000
Series A-1931	Jan 1, 1926	After Jan. 1, 1927; on Jan. 1, 1931	4	do	do	53,500,000	53,500,000	53,500,000
Series B-1931	Mar 5, 1926	After Mar 5, 1927; on Jan 1, 1931	4	do	do	70,000,000	70,000,000	70,000,000
Series A-1932	Jan 1, 1927	After Jan 1, 1928, on Jan 1, 1932	4	do	do	123,400,000	123,400,000	123,400,000
Series A-1933	Jan 1, 1928	After Jan 1, 1929, on Jan. 1, 1933.	4	do	do	123,400,000	123,400,000	123,400,000
Civil service retirement fund— Series 1931	Mar 14, 1927	After Mar. 14, 1928; on June 30, 1931.	4	June 30	do	31,200,000	31,200,000	31,200,000
Series 1932	June 30, 1927	After June 30, 1928, on June 30, 1932	4	do	do	14,400,000	14,400,000	14,400,000
Series 1933	June 30, 1928	After June 30, 1929, on June 30, 1933	4	do	do	14,800,000	14,800,000	14,800,000
Foreign service retirement fund— Series 1933	do	After June 30, 1929; on June 30, 1933	4	do	do	152,000	152,000	152,000
Certificates of indebtedness, act of Sept. 24, 1917 1	Dec. 15, 1927	On Dec. 15, 1928	3¼	June and Dec. 15	do	261,761,000	261,761,000	261,761,000
Series TD-1928	Mar 15, 1928	do	3¼	do	do	201,544,500	201,544,500	201,544,500
Series TD 2-1928	June 15, 1928	do	4	Dec. 15	do	216,371,500	216,371,500	216,371,500
Series TD 3-1928	Mar. 15, 1928	On Mar 15, 1929	3½	Sept. and Mar. 15	do	360,947,000	360,947,000	360,947,000
Series TM-1929	June 15, 1928	do	3½	do	do	211,784,000	211,784,000	211,784,000

Treasury savings certificates, <sup>1</sup> act of Sept. 24, 1917, <sup>1</sup>	Sept. 30, 1922	5 years from date of issue.	3-4 31/4-41/2 31/2-41/2	Sold at discount, payable at par on maturity	(Not exceeding \$4,000,000,000 outstanding at any one time.	Authorized to be outstanding at present time	Outstanding
Series 1923, issue of Sept. 30, 1922.....	Sept. 30, 1922	do.	3-4				
Series 1923, issue of Dec. 1, 1923.....	Dec. 1, 1923	do.	31/4-41/2				
Series 1924, issue of Dec. 1, 1923.....	do.	do.	31/2-41/2				
Total interest-bearing debt.....							17,317,686,088
Total matured debt on which interest has ceased.....							45,331,680
Title and authorizing act							
NONINTEREST-BEARING DEBT							
Old demand notes.							
Acts of July 17, 1881, Aug. 5, 1881, Feb. 12, 1882.....					\$60,000,000	\$60,000,000	\$53,013
Fractional currency.							
Acts of July 17, 1882; Mar. 3, 1883; June 30, 1884.....					50,000,000	\$368,724,080	41,962,474
Legal-tender notes.							
Acts of Feb. 25, 1882; July 11, 1882; Mar. 3, 1883; May 31, 1878; Mar. 14, 1900; Mar. 4, 1907.....					450,000,000	\$340,681,016	346,681,016
National-bank notes (redemption account—balance remaining of deposits by National banks to redeem their circulating notes)							
Act of July 14, 1890.....					Indefinite		43,039,852
Thrift and Treasury savings stamps, unclassified sales, etc.....							3,536,540
Total noninterest-bearing debt.....							397,302,896
Total debt.....							17,760,329,651
Less gold reserve.....							156,039,088
Gross debt as shown on statement of the public debt June 30, 1928.....							17,604,290,563

<sup>1</sup> As amended.  
<sup>2</sup> Amounts issued and amounts outstanding of Treasury savings certificates are on basis of net redemption value.  
<sup>3</sup> Including resissues.  
<sup>4</sup> After deducting amounts officially estimated to have been lost or irrevocably destroyed.  
 Source: Annual Report of the Secretary of the Treasury.

**No. 215.—PUBLIC DEBT OF THE UNITED STATES: SUMMARY OF TRANSACTIONS IN INTEREST-BEARING SECURITIES DURING THE FISCAL YEAR 1928**

[All figures in thousands of dollars]

Account	Total	Pre-war bonds	Liberty and Treasury bonds	Treasury notes	Certificates of indebtedness	Treasury (war) savings securities
Outstanding June 30, 1927.....	18,260,944	766,550	14,453,845	2,019,195	702,096	309,259
<b>Issued during the fiscal year 1928:</b>						
Upon original subscription against cash.....	6,830,215	1,583	27,053	1,365,247	5,419,284	17,048
Upon exchange, etc., for securities of equal par value retired—						
Exchange—						
Interim certificates.....	11	—	11	—	—	—
Coupon for registered.....	243,792	367	243,425	—	—	—
Registered for coupon.....	369,224	—	369,224	—	—	—
Of denominations.....	2,030,853	—	569,845	614,358	846,650	—
Temporary for permanent.....	3,264	—	3,264	—	—	—
Mutilated for perfect <sup>1</sup> .....	27	—	27	—	—	—
Transfer of ownership.....	271,279	59,333	191,066	20,000	—	<sup>2</sup> 879
Conversion.....	1	—	1	—	—	—
Upon adjudicated claims for replacement.....	560	1	456	—	—	104
<b>Total issued during the fiscal year 1928.....</b>	<b>9,749,226</b>	<b>61,283</b>	<b>1,404,373</b>	<b>1,999,605</b>	<b>6,265,934</b>	<b>18,031</b>
<b>Retired during the fiscal year 1928</b>						
Account of redemption—						
Purchases.....						
Cumulative sinking fund.....	172,496	—	152,496	20,000	—	—
Surplus money in the Treasury.....	337,415	—	337,415	—	—	—
Proceeds of sales of Treasury notes.....	20,000	—	—	20,000	—	—
Securities received for redemption—						
Cumulative sinking fund.....	182,245	—	182,245	( <sup>3</sup> )	1	1
Gifts, forfeitures, etc.....	3,080	—	3,078	—	—	—
Repayments of principal by foreign governments.....	46,497	—	387	28,478	17,633	—
Interest payments on obligations of foreign governments.....	135,307	—	—	135,307	—	—
Estate or inheritance taxes.....	2	—	2	—	—	—
Redemption—exchange in payments for—						
Treasury bonds of 1943-1947.....	27,053	—	27,053	—	—	—
Treasury notes, series B-1930-1932.....	368,973	—	368,973	—	—	—
Treasury notes, series C-1930-1932.....	607,400	—	607,400	—	—	—
Certificates of indebtedness, series T-I-1928.....	2,304	—	2,304	—	—	—
Prior to call or maturity.....	235,083	—	—	38,500	191,325	5,268
Upon call.....	514,112	—	514,112	—	—	—
At maturity.....	5,071,759	—	—	241,301	4,657,008	173,450
Account of exchange, etc., for securities of equal par value issued—						
Exchange—						
Interim certificates.....	11	—	11	—	—	—
Coupon for registered.....	243,792	367	243,425	—	—	—
Registered for coupon.....	369,224	—	369,224	—	—	—
Of denominations.....	2,030,853	—	569,845	614,358	846,650	—
Temporary for permanent.....	3,264	—	3,264	—	—	—
Mutilated for perfect <sup>1</sup> .....	27	—	27	—	—	—
Transfer of ownership.....	271,279	59,333	191,066	20,000	—	<sup>2</sup> 879
Conversion.....	1	—	1	—	—	—
Account of loss or destruction <sup>4</sup> .....	560	1	456	—	—	104
<b>Total retired during the fiscal year 1928.....</b>	<b>10,642,738</b>	<b>59,700</b>	<b>3,572,785</b>	<b>1,117,944</b>	<b>5,712,617</b>	<b>179,691</b>
Outstanding June 30, 1928.....	17,357,432	768,133	12,285,433	2,900,855	1,255,413	147,599
Deduct interest-bearing debt which matured during the year.....	39,737	—	32,748	855	3,005	3,130
<b>Outstanding June 30, 1928 (per public debt statement).....</b>	<b>17,317,695</b>	<b>768,133</b>	<b>12,252,685</b>	<b>2,900,001</b>	<b>1,252,408</b>	<b>144,469</b>

<sup>1</sup> Includes coupon error transactions

<sup>3</sup> Less than \$500

<sup>2</sup> Represents reissue transactions

<sup>4</sup> Covered by insurance or bonds of indemnity.

## No. 216.—PUBLIC DEBT OF THE UNITED STATES: 1800 TO 1929

[All figures except per capita in thousands of dollars]

June 30—	Gross debt <sup>1</sup>		Interest bearing <sup>2</sup>	Ma-tured	Non-interest bearing <sup>1</sup>	June 30—	Gross debt <sup>1</sup>		Interest bearing <sup>2</sup>	Ma-tured	Non-interest bearing <sup>1</sup>
	Amount	Per capita					Amount	Per capita			
1800.	82,976	\$15 63	—	—	—	1893.	961,432	\$14.49	585,037	2,094	374,301
1810.	53,173	7 34	—	—	—	1894.	1,016,898	15 04	635,042	1,851	380,005
1820.	91,016	9 44	—	—	—	1895.	1,096,913	15.91	716,202	1,722	378,989
1830.	48,565	3 77	—	—	—	1896.	1,222,729	17.40	847,364	1,637	373,729
1840.	3,573	.21	—	—	—	1897.	1,226,794	17.14	847,365	1,347	378,082
1850.	63,453	2 74	—	—	—	1898.	1,232,743	16.90	847,367	1,263	384,113
1855.	35,588	1 32	35,418	170	—	1899.	1,436,701	19.33	1,046,049	1,218	389,424
1860.	64,844	2 06	64,683	161	—	1900.	1,436,417	16.56	1,022,479	1,176	398,762
1864.	1,815,831	53 33	1,360,027	367	455,804	1901.	1,221,572	15.71	987,141	1,416	235,016
1865.	2,677,929	77.07	2,217,709	2,129	458,090	1902.	1,178,031	14.89	931,070	1,281	245,680
1866.	2,755,764	77 69	2,322,116	4,436	429,212	1903.	1,159,406	14 40	914,541	1,205	243,659
1867.	2,650,108	73 19	2,235,955	1,739	409,474	1904.	1,136,259	13.88	865,157	1,971	239,131
1868.	2,583,446	69 87	2,191,326	1,246	390,874	1905.	1,132,357	13 60	865,158	1,370	235,829
1869.	2,545,111	67 41	2,151,495	5,112	388,503	1906.	1,142,523	13.50	895,159	1,128	216,236
1870.	2,436,453	63 19	2,035,881	3,570	397,003	1907.	1,147,178	13.33	894,834	1,087	251,257
1871.	2,322,052	58 70	1,920,697	1,949	399,406	1908.	1,177,690	13.46	897,504	4,130	270,056
1872.	2,209,991	54 44	1,800,794	7,927	401,270	1909.	1,148,315	12 91	913,317	2,884	232,114
1873.	2,151,210	51 62	1,696,484	51,929	402,797	1910.	1,146,940	12.69	913,317	2,125	231,498
1874.	2,159,933	50 47	1,724,931	3,216	431,786	1911.	1,133,985	12 28	915,353	1,880	236,752
1875.	2,156,277	49.06	1,708,676	11,426	436,175	1912.	1,193,839	12.48	963,777	1,760	228,301
1876.	2,130,846	47 21	1,696,685	3,902	430,258	1913.	1,193,048	12 26	965,707	1,660	225,682
1877.	2,107,760	45 47	1,697,888	16,494	393,223	1914.	1,188,235	12 00	967,953	1,553	218,730
1878.	2,159,418	45 37	1,780,736	5,594	373,089	1915.	1,191,264	11 83	969,759	1,507	219,998
1879.	2,298,913	47 05	1,887,716	37,015	374,181	1916.	1,225,146	11 96	971,563	1,473	252,110
1880.	2,090,909	41.69	1,709,993	7,621	373,295	1917.	2,975,619	28.57	2,712,549	14,232	243,837
1881.	2,019,258	39 35	1,625,568	6,724	386,994	1918.	12,243,629	115 65	11,985,882	20,243	237,504
1882.	1,856,916	35 37	1,449,810	16,261	390,845	1919.	25,482,034	240.09	25,234,496	11,109	236,429
1883.	1,721,959	32 07	1,324,229	7,831	389,899	1920.	24,297,918	228.33	24,061,095	6,748	230,075
1884.	1,625,307	29 60	1,212,564	19,656	393,088	1921.	23,976,251	221.82	23,737,352	10,940	227,959
1885.	1,578,551	28.11	1,182,151	4,101	392,299	1922.	22,964,079	209.25	22,711,036	25,251	227,793
1886.	1,555,660	27 10	1,132,014	9,704	413,941	1923.	22,349,683	200 86	22,007,591	98,172	213,025
1887.	1,465,485	24 97	1,007,692	6,115	451,678	1924.	21,251,120	188 59	20,981,586	30,241	239,293
1888.	1,384,632	23 09	936,522	2,496	445,613	1925.	20,516,272	179 80	20,210,906	30,243	275,123
1889.	1,249,471	20 39	815,854	1,911	431,705	1926.	19,643,183	170 04	19,383,771	13,828	246,084
1890.	1,122,397	17 92	711,313	1,816	409,268	1927.	18,510,174	158.28	18,250,944	14,707	244,623
1891.	1,005,807	15 75	610,529	1,615	393,663	1928.	17,604,291	148 73	17,317,095	45,332	241,264
1892.	968,219	14 88	585,029	2,786	380,404	1929.	16,931,088	141.34	16,638,941	50,749	241,398

Date	Gross debt <sup>1</sup>	Interest-bearing debt					Matured debt on which interest has ceased	Debt bearing no interest <sup>1</sup>
		Pre-war loans un-matured	Liberty and Treasury bonds	Notes (Victory Liberty loan and Treasury)	Certificates of indebtedness	Treas-ury savings securities <sup>2</sup>		
Apr 5, 1917	1,281,969	1,023,557	—	—	—	—	1,459	256,952
June 30, 1917	2,975,629	973,357	1,466,335	—	272,857	—	14,232	248,837
June 30, 1918	12,243,629	966,166	8,963,714	—	1,706,205	—	20,243	237,504
June 30, 1919	25,482,034	883,360	16,304,310	3,467,845	3,624,983	953,997	11,109	236,429
Aug. 31, 1919 <sup>3</sup>	26,594,268	883,463	16,219,399	4,113,405	4,201,209	931,302	9,914	235,576
June 30, 1920	24,297,918	883,549	15,334,836	4,246,365	2,768,926	827,419	6,748	230,075
June 30, 1921	23,976,251	883,728	15,235,216	4,224,972	2,699,330	694,105	10,940	227,959
June 30, 1922	22,964,079	883,840	15,081,613	4,237,780	1,828,787	619,015	25,251	227,793
June 30, 1923	22,349,683	883,670	15,651,108	4,104,195	1,031,418	337,199	98,172	243,025
June 30, 1924	21,251,120	883,704	15,141,756	3,735,309	807,514	413,304	30,241	239,293
June 30, 1925	20,516,272	765,316	16,076,974	2,404,241	578,685	385,690	30,243	275,123
June 30, 1926	19,643,183	765,860	16,162,418	1,612,404	483,279	356,810	13,328	246,084
June 30, 1927	18,510,174	765,550	14,453,845	2,019,195	702,096	309,259	14,707	244,623
Dec 31, 1927	18,036,056	767,272	13,174,501	2,252,210	2,147,045	244,646	110,441	239,942
June 30, 1928	17,604,291	768,133	12,252,685	2,900,001	1,252,408	144,469	45,332	241,264
Dec. 31, 1928	17,309,742	769,196	11,360,180	2,816,002	1,950,110	94,718	82,986	235,951
June 30, 1929	16,931,088	770,207	11,354,495	2,861,012	1,640,200	13,028	50,749	241,398

<sup>1</sup>After deducting gold reserve<sup>2</sup>Exclusive of bonds issued to the Pacific railways and the Navy pension fund.<sup>3</sup>Amounts outstanding of series of 1918, 1919, 1920, and 1921 (except issue of Dec. 15, 1921) are amounts issued on the basis of reports of sales or of cash receipts less amounts retired on the basis of redemption value. Amounts outstanding of all other series are the net redemption value. Includes net receipts from the sale of thrift stamps and Treasury savings stamps prior to June 30, 1926.<sup>4</sup>Maximum figure.<sup>5</sup>Preliminary statement of public debt

Source: Annual reports of the Secretary of the Treasury.

**No. 217.—PUBLIC DEBT OF THE UNITED STATES: TRANSACTIONS DURING  
THE YEARS ENDED JUNE 30, 1917 TO 1923**

[All figures in thousands of dollars]

	1917-1923	1924	1925	1926	1927	1928
Gross debt outstanding at beginning of period or year.....	1, 235, 146	22, 349, 688	21, 251, 120	20, 516, 272	19, 643, 183	18, 510, 174
Interest-bearing debt.....	971, 563	22, 007, 591	20, 981, 586	20, 210, 906	19, 383, 771	18, 250, 944
Matured debt on which interest has ceased.....	1, 473	98, 172	30, 241	30, 243	13, 328	14, 707
Debt bearing no interest (less gold reserve).....	252, 110	243, 925	239, 293	275, 123	246, 084	244, 523
<b>Public debt issues.....</b>	<b>66, 609, 868</b>	<b>2, 207, 129</b>	<b>3, 152, 463</b>	<b>3, 008, 357</b>	<b>5, 185, 088</b>	<b>6, 855, 341</b>
Pre-war issues.....	73, 121	34	102	544	690	1, 583
Certificates of indebtedness.....	58, 304, 222	2, 014, 893	1, 926, 579	2, 355, 515	3, 145, 735	5, 419, 284
First Liberty loan.....	1, 989, 456					
Second Liberty loan.....	3, 807, 865					
Third Liberty loan.....	4, 175, 650					
Fourth Liberty loan.....	6, 964, 581					
Victory Liberty loan.....	4, 495, 373					
Treasury notes.....	4, 247, 535	210	50, 000	123, 500	1, 529, 456	1, 365, 247
Treasury bonds.....	763, 962		1, 047, 089	494, 898	467, 802	27, 053
Treasury (war) savings securities.....	1, 462, 992	163, 540	23, 247	11, 677	13, 572	17, 052
National-bank notes, retirements.....	325, 111	28, 454	105, 447	22, 223	27, 828	25, 122
<b>Public debt redemptions.....</b>	<b>65, 485, 325</b>	<b>3, 305, 697</b>	<b>3, 687, 311</b>	<b>3, 881, 447</b>	<b>6, 318, 092</b>	<b>7, 761, 224</b>
Pre-war issues.....	160, 893	44	117, 075	640	213	88
Certificates of indebtedness.....	57, 270, 575	2, 238, 167	2, 157, 555	2, 449, 743	2, 927, 254	4, 867, 363
First Liberty loan.....	37, 691	239	5	12, 307	54	4
Second Liberty loan.....	608, 828	94, 450	28	31	1, 798, 148	1, 273, 632
Third Liberty loan.....	767, 863	410, 587	111, 823	397, 105	340, 608	918, 816
Fourth Liberty loan.....	636, 015	4, 070	14	9	27, 566	2, 863
Victory Liberty loan.....	4, 401, 023	80, 640	6, 942	2, 307	1, 282	959
Treasury notes.....	143, 840	356, 973	1, 373, 392	930, 485	1, 119, 512	490, 215
Treasury bonds.....	8	6		1	10, 000	150
Treasury (war) savings securities.....	1, 125, 794	87, 434	50, 561	33, 850	64, 162	178, 827
National-bank notes, deposits for retirement.....	328, 444	33, 084	68, 974	54, 400	28, 061	27, 687
Miscellaneous noninterest-bearing debt.....	4, 851	1	643	569	1, 233	619
<b>Gross debt outstanding at close of period or year.....</b>	<b>22, 349, 688</b>	<b>21, 251, 120</b>	<b>20, 516, 272</b>	<b>19, 643, 183</b>	<b>18, 510, 174</b>	<b>17, 604, 291</b>
Interest-bearing.....	22, 007, 591	20, 981, 586	20, 210, 906	19, 383, 771	18, 250, 944	17, 317, 695
Matured debt on which interest has ceased.....	98, 172	30, 241	30, 243	13, 328	14, 707	45, 332
Debt bearing no interest less gold reserve.....	243, 925	239, 293	275, 123	246, 084	244, 523	241, 264

**No. 218.—PAYMENTS AND LOANS OF UNITED STATES TO CARRIERS**

Section of transportation act of 1920, as amended, and character of transactions	To or as of—		
	Nov. 15, 1922	June 30, 1927	June 30, 1928
<b>Payments to carriers under section 204 for reimbursement of deficits on account of Federal control:</b>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>
Partial payments.....	2, 177, 651	2, 207, 651	2, 207, 651
Final payments (less refunds of overpayments).....	2, 961, 899	8, 129, 785	8, 748, 479
Total certified.....	5, 139, 550	10, 337, 436	10, 956, 131
Deductions <sup>1</sup> .....	972, 596	1, 918, 518	1, 918, 555
<b>Payments to carriers under guaranty provided in section 209</b>			
Advances.....	263, 935, 874	263, 935, 874	263, 935, 874
Partial payments.....	168, 930, 412	169, 441, 912	169, 441, 912
Final payments (less refunds of overpayments).....	17, 224, 517	99, 945, 781	98, 327, 849
Total.....	450, 090, 804	533, 322, 567	531, 706, 635
<b>Payments by carriers to United States under section 209 (d) on account of excess earnings.....</b>		446, 638	446, 638
<b>Loans to carriers under section 210:</b>			
Total loans made to date.....	317, 886, 667	350, 600, 667	350, 600, 667
Total repayments to date.....	98, 684, 546	204, 219, 781	281, 339, 219
Account outstanding.....	219, 202, 122	146, 380, 885	69, 261, 448

<sup>1</sup> Amount due from the carriers to the President on account of traffic balances or other indebtedness and payable to the Director General of Railroads as his agent. This amount should be deducted from the total certified to arrive at the amount paid to the carriers direct.

Source of Tables 217 and 218: Annual Report of the Secretary of the Treasury.

**No. 219.—OBLIGATIONS OF FOREIGN GOVERNMENTS TO UNITED STATES:  
AMOUNT OF INDEBTEDNESS AND PAYMENTS RECEIVED ON ACCOUNT**

NOTE —Accrued interest includes amounts accrued and unpaid up to and including the last interest period prior to December 31, 1928

[All figures in thousands of dollars]

Country	Total in- debted- ness, Dec. 31, 1927	Indebtedness Dec 31, 1928				
		Total	Funded		Unfunded	
			Principal (net)	Accrued interest (net) <sup>1</sup>	Principal (net)	Accrued interest (net)
Total.....	11,847,185	11,827,011	11,433,683	30,777	243,908	118,643
Armenia.....	16,720	17,323			11,960	5,364
Austria <sup>2</sup> .....	34,159	35,602			24,056	11,547
Belgium.....	413,580	411,130	411,130			
Czechoslovakia <sup>3</sup> .....	177,571	174,571	174,571			
Estonia.....	15,636	16,071	13,830	2,241		
Finland.....	8,764	8,712	8,712			
France <sup>4</sup> .....	4,025,000	4,025,000	4,025,000			
Great Britain.....	4,480,000	4,453,000	4,453,000			
Greece.....	19,500	20,250			15,000	5,250
Hungary <sup>5</sup> .....	1,942	1,932	1,932			
Italy.....	2,032,000	2,027,000	2,027,000			
Latvia.....	6,504	6,685	5,775	910		
Lithuania <sup>6</sup> .....	6,207	6,262	6,262			
Nicaragua.....	299	302			291	11
Poland.....	200,574	206,187	178,560	27,627		
Rumania <sup>7</sup> .....	66,061	65,661	65,661			
Russia.....	280,197	289,073			192,601	96,472
Yugoslavia.....	62,450	62,250	62,250			

Country	Payments to Dec 31, 1928					Total payments during year ended Dec 31, 1928
	Total	Funded indebtedness		Unfunded indebtedness <sup>8</sup>		
		Principal	Interest	Principal	Interest	
Total.....	2,062,038	181,115	834,998	303,267	742,658	210,145
Belgium.....	34,491	6,650	7,240	2,058	18,544	4,825
Cuba <sup>9</sup> .....	12,287			10,000	2,287	
Czechoslovakia.....	10,804	10,500			304	3,000
Estonia.....	451		450		1	200
Finland.....	2,196	288	1,599		309	315
France <sup>4</sup> .....	378,660			85,970	292,690	32,004
Great Britain.....	1,524,458	147,000	17,380	202,182	357,897	161,400
Greece.....	1,159				1,159	
Hungary.....	345	51	293		1	69
Italy.....	72,963	15,000		364	57,599	5,000
Latvia.....	341		210		131	80
Liberia <sup>7</sup> .....	36			26	10	
Lithuania.....	953	126	826		2	131
Nicaragua.....	169			141		
Poland.....	9,048		7,000		28	
Rumania.....	2,962	900		1,799	263	400
Russia.....	85,749				8,749	15
Yugoslavia.....	1,964	600		728	636	207

<sup>1</sup> Accrued and unpaid interest on funded debt due to exercise of options to pay specified amounts over first five years in lieu of total amounts due for which bonds similar to those originally issued under funding agreement will be given upon expiration of the option for the full amount then due.

<sup>2</sup> Time of payment of principal and interest extended to June 1, 1943.

<sup>3</sup> Indebtedness includes deferred payments provided for in the funding agreements, for which gold bonds of the respective debtor governments have been or will be delivered to the Treasury.

<sup>4</sup> Funding agreement not yet ratified. Upon ratification, \$92,565,000 of payments shown will be applied toward payment of the first annuities due thereunder.

<sup>5</sup> Increase in indebtedness over amount funded due to exercise of options to pay one-half of interest due on original issue of bonds in bonds of debtor governments.

<sup>6</sup> Payments of governments which have funded were made prior to the dates of the funding agreements.

<sup>7</sup> The Governments of Cuba and Liberia have paid in full principal and interest due on their obligations.

<sup>8</sup> Represents proceeds of liquidation of financial affairs of Russia in this country.

Source Treasury Department

**No. 220.—OBLIGATIONS OF FOREIGN GOVERNMENTS TO UNITED STATES:**  
**ORIGINAL AND FUNDED DEBT, VALUE AT TIME OF FUNDING OF PAYMENTS TO**  
**BE RECEIVED AND AVERAGE INTEREST RATES ON DEBT AS FUNDED**

NOTE.—The debts were all funded on the basis of fixed annual payments, including both principal and interest, extending over a period of 62 years from the date of funding

[All figures in thousands of dollars]

Country	Original principal	Funded interest	Funded debt	Debt prior to funding, including accrued interest (5 and 6 per cent)	Value at time of funding of payments to be received over 62-year period on basis of interest rates stated			Approximate interest rates on debt as funded, per cent
					3 per cent	4½ per cent	5 per cent	
Total.....	9,811,094	1,711,260	11,522,354	12,036,376	9,175,655	6,862,285	5,873,638	-----
Belgium.....	377,030	40,750	417,780	483,426	302,239	225,000	191,766	1 790
Czechoslovakia.....	91,880	23,120	115,000	123,954	124,985	91,964	77,985	3 327
Estonia.....	12,066	1,764	13,830	14,143	14,798	11,392	9,915	3 306
Finland.....	8,282	718	9,000	9,190	9,630	7,413	6,452	3 306
France.....	3,340,516	684,484	4,025,000	4,230,777	2,734,250	1,996,509	1,681,369	1 640
Great Britain.....	4,074,818	525,182	4,600,000	4,715,310	4,922,702	3,788,470	3,296,948	3 306
Hungary.....	1,686	253	1,939	1,984	2,076	1,596	1,388	3 306
Italy.....	1,647,869	394,131	2,042,000	2,150,150	782,321	528,192	426,287	405
Latvia.....	5,132	643	5,775	5,893	6,181	4,755	4,137	3 306
Lithuania.....	4,982	1,048	6,030	6,216	6,452	4,967	4,322	3 306
Poland.....	159,667	18,893	178,560	182,324	191,283	146,825	127,643	3 306
Rumania.....	36,128	8,462	44,590	46,945	48,442	35,172	29,507	3 321
Yugoslavia.....	51,038	11,812	62,850	66,164	30,286	20,030	15,919	1 030

Source Annual Report of the Secretary of the Treasury

**No. 221.—MONEY COST OF WORLD WAR TO UNITED STATES GOVERNMENT**  
**TO JUNE 30, 1928**

NOTE.—All figures in thousands of dollars. Data, which are partly estimated, include expenditures during the war period taken as extending from Apr 6, 1917, to June 30, 1921, and continuing costs, expenses of the Veterans' Bureau, interest on war debt, and construction of veterans' hospitals, to June 30, 1928. They make allowance for estimated normal expenditures under the War and Navy Departments, receipts on account of the sale of war supplies and surplus Government property, and assets held on June 30, 1921, except foreign obligations and amounts due from Germany account of army of occupation, which are taken as of June 30, 1927

	Total war costs	Receipts	Assets June 30, 1921, (partly estimated)	Net war costs
Total.....	49,197,882	3,684,418	9,153,233	36,360,232
Military activities.....	16,283,569	981,574	452,402	14,849,594
Naval activities.....	3,480,782	24,439	55,000	3,401,343
War emergency corporations.....	4,387,600	487,729	892,460	3,007,411
War expenditures under other departments and war agencies.....	3,541,824	446,746	283,370	2,811,707
Interest on war debt to June 30, 1928.....	8,832,000	-----	-----	8,832,000
Foreign obligations (June 30, 1927).....	9,598,237	1,743,930	2 7,470,000	384,306
Veterans' Bureau (continuing cost to June 30, 1928).....	3,023,870	-----	-----	3,023,870
Settlement of war claims act of 1928.....	50,000	-----	-----	50,000

<sup>1</sup> Represents obligations acquired for cash advances under Liberty bond acts.

<sup>2</sup> Value June 30, 1927 on the basis of 4 per cent per annum, payable semiannually (approximately the average rate of interest United States is paying on its public debt), of payments to be received on all accounts under funding agreements, including the debts of Austria and Greece on a similar basis.

Source. Annual Report of the Secretary of the Treasury.

# No. 222.—SECURITIES OWNED BY THE UNITED STATES GOVERNMENT, JUNE 30, 1927 AND 1928

NOTE.—This statement is made up on the basis of the face value of the securities therein described as received by the United States, with due allowance for repayments. To the extent that the securities are not held in the custody of the Treasury, the statement is made up from reports received from other Government departments and establishments. The statement does not include securities which the United States holds as collateral, or as the result of the investment of trust funds, as, for example, securities held for account of the Alien Property Custodian, the United States Government life insurance fund, and other similar trust funds. For details of foreign obligations see Table 219.

[All figures in thousands of dollars]

	1927	1928
Grand total.....	11, 288, 039	11, 108, 951
Bonds of foreign governments received under agreements for funding of their debts to the United States.....	6, 818, 155	7, 198, 890
Obligations of foreign governments, under acts approved Apr. 24, 1917, and Sept. 24, 1917, as amended (on basis of cash advances, less repayments of principal) <sup>1</sup> .....	3, 561, 172	3, 202, 264
Foreign obligations received on account of sale of surplus war supplies <sup>1</sup> .....	483, 439	453, 620
Foreign obligations received from the American Relief Administration on account of relief, pursuant to act approved Feb. 25, 1919 <sup>1</sup> .....	18, 922	18, 922
Foreign obligations received from the United States Grain Corporation on account of final liquidation, given for relief pursuant to act approved Mar. 30, 1920 <sup>1</sup> .....	30, 860	30, 860
Capital stock of war emergency corporations:		
Capital stock of the Emergency Fleet Corporation.....	<sup>2</sup> 50, 000	<sup>2</sup> 50, 000
Less cash deposited with the Treasurer of the United States.....	54, 231	25, 686
Balance.....	15, 769	24, 314
Capital stock of the Hoboken Manufacturers Railroad Co.....	400	
Capital stock of United States Housing Corporation issued.....	<sup>2</sup> 70, 000	<sup>2</sup> 70, 000
Less amount retired plus cash deposits covered into Treasury under act approved July 11, 1919.....	57, 558	59, 516
Balance.....	32, 642	30, 684
Capital stock of the United States Spruce Production Corporation.....	100	100
Capital stock of the War Finance Corporation outstanding.....	<sup>3</sup> 1, 000	<sup>3</sup> 1, 000
Offset by cash deposited with the Treasurer of the United States.....	61, 157	64, 989
Equipment trust 6 per cent gold notes acquired pursuant to Federal control act of Mar. 21, 1918, as amended, and act approved Nov. 19, 1919, for reimbursement for motive power, cars, and other equipment ordered for carriers <sup>4</sup> .....	269	235
Obligations of carriers acquired pursuant to section 207 of the transportation act, approved Feb. 28, 1920, as amended.....	83, 834	5, 112
Obligations of carriers acquired pursuant to section 210 of the transportation act, approved Feb. 28, 1920, as amended.....	146, 381	69, 261
Capital stock of the Panama Railroad Co.....	7, 000	7, 000
Capital stock of the Inland Waterways Corporation (acquired pursuant to act approved June 3, 1924).....	4, 000	5, 000
Capital stock of Federal land banks, on basis of purchases, less repayments to date.....	842	556
Capital stock of Federal intermediate credit banks, acquired pursuant to the "agricultural credits act of 1923," approved Mar. 4, 1923.....	25, 000	25, 000
Securities received by Secretary of War on account of sales of surplus war supplies.....	2, 861	1, 195
Securities received by Secretary of Navy on account of sales of surplus property.....	6, 389	6, 267
Securities received by the U. S. Shipping Board on account of sales of ships, etc.....	50, 003	29, 680
MEMORANDUM		
Amount due the United States from the central branch of the Union Pacific Railroad on account of bonds issued (Pacific Railroad aid bonds, acts approved July 1, 1862, July 2, 1864, and May 7, 1878), total.....	3, 456	3, 440
Principal.....	1, 600	1, 600
Interest.....	1, 856	1, 840

<sup>1</sup> The figures do not include interest accrued and unpaid.

<sup>2</sup> Balance only, after deduction of cash deposited with the Treasurer of the United States, is included in total.

<sup>3</sup> Not included in total. Offset by deposits shown below.

<sup>4</sup> This amount does not include securities purchased by the Director General of Railroads under the provisions of section 12 of the Federal control act, approved Mar. 21, 1918.

<sup>5</sup> The notes are in series, which mature, respectively, on Jan. 15 in various years up to 1935.

Source: Annual Report of the Secretary of the Treasury.





# 10. STATE, MUNICIPAL, AND LOCAL GOVERNMENT FINANCES

## No. 223.—TAXES: TOTAL LEVIES OF AD VALOREM GENERAL PROPERTY TAXES OF STATES, COUNTIES, AND MINOR CIVIL DIVISIONS

NOTE.—The data represent the total levies of general property taxes of States, counties, cities, villages, towns, townships, school districts, etc., and for all purposes. They do not cover "special assessments" on property benefited by specific improvements nor special property taxes applying only to limited classes, nor taxes based on other standards than property, such as income, volume of business, inheritance, etc., which have been steadily growing in relative importance. The change in buying power of money affects materially the comparability of the figures. For data for 1870 and 1890, by States, see Table 437, Statistical Abstract of 1922

Division and State	Levies of general property taxes (thousands of dollars)					Amount per capita (dollars)				
	1860	1880	1902	1912	1922	1860	1880	1902	1912	1922
<b>Grand total</b> .....	94,187	313,921	724,737	1,349,841	3,503,725	3 00	8 28	9 22	13 91	32 23
<b>New England</b> .....	13,565	42,492	76,306	127,232	270,516	4 33	10 60	13 29	18 53	35 59
Maine.....	2,237	5,182	6,856	8,987	22,295	3 59	7 99	9 78	11 86	28 83
New Hampshire.....	1,262	3,179	4,166	6,978	15,029	3 87	9 16	9 95	15 98	33 71
Vermont.....	908	1,745	1,911	4,020	9,188	2 88	5 25	5 52	11 17	26 07
Massachusetts.....	7,437	24,327	49,219	82,566	156,285	6 04	13 64	17 06	23 27	39 33
Rhode Island.....	686	2,693	6,133	8,192	19,925	3 03	9 74	13 05	14 13	32 12
Connecticut.....	1,015	5,366	8,021	16,489	47,794	2 21	8 62	8 53	13 95	33 30
<b>Middle Atlantic</b> .....	25,551	94,130	211,938	364,266	840,028	3 43	8 97	13 17	17 71	36 66
New York.....	15,363	56,393	132,711	221,467	454,878	3 96	11 09	17 49	22 80	42 72
New Jersey.....	1,458	8,958	20,956	49,424	145,355	2 17	7 92	10 54	17 98	44 27
Pennsylvania.....	8,730	28,779	58,269	93,375	239,795	3 00	6 72	8 95	11 52	26 70
<b>East North Central</b> .....	23,531	78,502	172,421	292,021	689,682	3 40	7 00	10 47	15 38	39 27
Ohio.....	9,611	25,757	47,460	76,697	224,423	4 11	8 05	11 15	15 45	37 63
Indiana.....	3,701	11,943	27,968	45,644	117,138	2 74	6 04	10 84	16 53	39 26
Illinois.....	6,122	24,586	53,013	84,834	250,380	3 58	7 99	10 56	14 37	37 60
Michigan.....	1,767	8,628	23,477	47,998	168,797	2 36	5 27	9 48	16 34	43 90
Wisconsin.....	2,330	7,588	20,503	36,848	108,944	3 00	5 77	9 61	15 23	40 45
<b>West North Central</b> .....	7,442	35,490	95,010	180,440	490,829	3 43	5 76	9 00	15 06	38 52
Minnesota.....	666	4,346	17,781	38,108	107,325	3 87	5 57	9 65	17 47	43 78
Iowa.....	2,378	11,062	22,603	36,570	105,842	3 52	6 81	10 17	16 45	43 36
Missouri.....	4,110	11,832	21,785	35,491	91,445	3 48	5 46	6 82	10 58	26 64
North Dakota.....	.....	1 478	4,186	11,875	31,167	.....	3 54	11 44	17 97	47 13
South Dakota.....	.....	4 329	10,720	32,483	.....	.....	10 69	16 67	50 13	.....
Nebraska.....	92	2,792	9,499	19,781	53,236	3 19	6 17	8 89	16 04	40 26
Kansas.....	196	4,980	14,847	27,895	69,331	1 83	5 00	10 14	16 55	38 83
<b>South Atlantic</b> .....	9,580	21,553	46,365	91,136	255,316	1 79	2 84	4 31	7 15	17 73
Delaware.....	206	604	1,317	1,791	4,841	1 83	4 12	7 00	8 61	21 20
Maryland.....	2,159	5,437	10,698	16,360	40,026	3 14	5 82	8 79	12 30	26 95
District of Columbia.....	260	1,469	3,351	5,399	12,366	3 47	8 27	11 62	15 51	28 26
Virginia.....	3,673	4,694	6,896	13,822	33,878	2 30	3 10	3 64	6 49	14 32
West Virginia.....	.....	1,994	5,507	10,026	38,435	.....	3 22	5 52	7 67	25 39
North Carolina.....	1,045	1,916	3,975	9,989	37,017	1 05	1 37	2 04	4 33	13 98
South Carolina.....	1,280	1,840	3,736	6,899	20,886	1 82	1 85	2 73	4 39	12 09
Georgia.....	798	3,014	8,204	18,414	35,673	1 75	1 95	3 58	6 73	12 01
Florida.....	159	585	2,681	8,436	32,194	1 13	2 17	4 79	10 22	31 44
<b>East South Central</b> .....	5,057	11,996	27,167	51,663	125,781	1 26	2 15	3 50	5 95	13 96
Kentucky.....	2,148	5,201	10,462	17,669	37,322	1 86	3 15	4 74	7 56	15 23
Tennessee.....	1,103	2,516	7,626	14,112	35,127	.99	1 63	3 08	6 31	14 83
Alabama.....	851	2,062	4,899	9,971	22,684	.88	1 63	2 59	4 45	9 46
Mississippi.....	955	2,217	4,180	9,911	30,648	1 21	1 96	2 61	5 28	17 12
<b>West South Central</b> .....	6,129	10,794	29,985	77,723	222,351	3 51	3 24	4 35	8 17	21 05
Arkansas.....	635	1,839	4,446	10,621	17,476	1 46	2 29	3 30	6 40	9 77
Louisiana.....	4,961	4,386	8,478	14,432	41,562	7 01	4 67	5 91	8 27	22 65
Oklahoma.....	.....	.....	13,677	19,705	54,079	.....	3 77	10 16	25 09	.....
Texas.....	533	4,569	13,884	32,965	109,234	.88	2 87	4 26	7 90	22 60
<b>Mountain</b> .....	95	4,717	24,312	54,327	144,466	.54	7 22	13 76	18 45	41 23
Montana.....	.....	384	4,092	11,245	26,008	.....	9 80	15 53	26 83	43 94
Idaho.....	.....	187	1,895	6,952	18,569	.....	5 73	11 11	18 35	40 68
Wyoming.....	.....	230	1,074	2,610	8,365	.....	11 07	11 16	15 98	40 68
Colorado.....	.....	2,152	10,741	16,931	44,588	.....	11 07	19 34	19 17	45 75
New Mexico.....	30	164	1,410	3,426	8,805	.32	1 37	7 15	9 26	23 89
Arizona.....	.....	293	1,635	4,358	15,352	.....	7 25	12 59	18 88	42 54
Utah.....	65	435	2,848	6,529	17,711	1 61	3 02	9 81	16 13	37 82
Nevada.....	.....	872	617	2,276	5,068	.....	14 00	14 57	24 02	65 47
<b>Pacific</b> .....	3,237	14,247	41,935	111,033	284,756	7 29	12 78	18 42	33 28	48 61
Washington.....	57	505	9,003	31,205	66,283	4 94	6 73	16 43	23 21	47 13
Oregon.....	199	1,114	4,920	17,139	40,090	3 79	6 37	11 43	22 64	49 55
California.....	2,981	12,628	27,312	62,689	178,383	7 85	14 60	17 81	23 50	48 97

<sup>1</sup> Dakota Territory.

<sup>1</sup> Oklahoma and Indian Territory combined

Source: Bureau of the Census, Department of Commerce.

### No. 224.—ASSESSED VALUATION OF PROPERTY SUBJECT TO GENERAL PROPERTY TAX, 1927

NOTE.—Data shown are taxable values of property subject to the general property tax for the use of State governments. Property belonging to railroads, telegraph companies, and a number of similar corporations is in some States distinguished as real or personal, but in a number of States it is treated as a single total. In the latter case, figures for such corporations and also other property and franchise valuations of corporations for which data were insufficient for a complete distinction of real from personal are not shown separately but are included in the totals.

[All figures in millions of dollars]

Division and State	Total <sup>1</sup>	Real property	Personal property	Division and State	Total <sup>1</sup>	Real property	Personal property
<b>Grand total</b> .....	<b>2 146, 432</b>	<b>2 112, 488</b>	<b>2 27, 832</b>	<b>South Atlantic—Contd</b>			
<b>New England</b> .....	<b>12, 624</b>	<b>10, 332</b>	<b>2, 192</b>	Virginia <sup>4</sup> .....	2, 109	1, 193	916
Maine.....	725	579	146	West Virginia.....	2, 130	1, 249	411
New Hampshire.....	664	528	84	North Carolina <sup>2</sup> .....	2, 798	4 2, 798	( <sup>1</sup> )
Vermont.....	315	214	54	South Carolina.....	422	223	199
Massachusetts.....	7, 076	6, 020	1, 056	Georgia.....	1, 275	750	320
Rhode Island.....	1, 299	846	453	Florida.....	786	624	94
Connecticut.....	2, 545	2, 145	399	<b>East South Central</b> .....	<b>6, 580</b>	<b>3, 986</b>	<b>1, 966</b>
<b>Middle Atlantic</b> .....	<b>38, 185</b>	<b>33, 767</b>	<b>3, 850</b>	Kentucky.....	2, 993	1, 523	1, 470
New York.....	20, 795	20, 530	265	Tennessee.....	1, 721	1, 277	160
New Jersey.....	6, 112	4, 774	871	Alabama.....	1, 122	725	180
Pennsylvania <sup>2</sup> .....	11, 278	8, 463	2, 814	Mississippi.....	724	461	156
<b>East North Central</b> .....	<b>37, 156</b>	<b>27, 180</b>	<b>8, 847</b>	<b>West South Central</b> .....	<b>7, 942</b>	<b>5, 402</b>	<b>2, 241</b>
Ohio.....	13, 496	9, 361	4, 134	Arkansas.....	615	421	194
Indiana.....	5, 188	3, 787	1, 401	Louisiana.....	1, 725	1, 078	647
Illinois.....	4, 185	3, 038	1, 401	Oklahoma.....	1, 697	1, 094	304
Michigan.....	8, 106	6, 294	1, 416	Texas.....	3, 905	2, 809	1, 096
Wisconsin <sup>3</sup> .....	6, 171	4, 700	895	<b>Mountain</b> .....	<b>4, 816</b>	<b>3, 168</b>	<b>800</b>
<b>West North Central</b> .....	<b>18, 676</b>	<b>12, 973</b>	<b>4, 149</b>	Montana.....	436	256	89
Minnesota.....	2, 365	1, 714	651	Idaho.....	483	344	27
Iowa.....	1, 545	819	637	Wyoming.....	462	257	95
Missouri.....	4, 967	3, 516	947	Colorado.....	1, 565	1, 052	280
North Dakota.....	998	722	276	New Mexico.....	315	144	67
South Dakota.....	1, 805	1, 421	254	Arizona.....	656	571	82
Nebraska.....	3, 322	2, 376	611	Utah.....	696	376	124
Kansas.....	3, 674	2, 385	773	Nevada.....	203	168	36
<b>South Atlantic</b> .....	<b>12, 126</b>	<b>8, 783</b>	<b>2, 599</b>	<b>Pacific</b> .....	<b>8, 347</b>	<b>6, 897</b>	<b>1, 288</b>
Delaware.....	257	4 257	( <sup>4</sup> )	Washington.....	1, 216	979	238
Maryland.....	2, 349	1, 689	659	Oregon.....	1, 111	812	137
				California <sup>2</sup> .....	6, 020	5, 106	913

<sup>1</sup> See headnote

<sup>2</sup> No general property tax levied for State purposes in Pennsylvania, North Carolina, and California, but assessed valuation of property for local taxation in these States is shown

<sup>3</sup> Real and personal property (\$5,594,839,198) not taxed for State purposes

<sup>4</sup> Valuation of personal property included with that of real property.

<sup>5</sup> Only personal intangible and certain classes of public service corporations taxed for State purposes

Source Bureau of the Census, Department of Commerce

### No. 225.—PUBLIC DEBT: GROSS DEBT LESS SINKING FUND ASSETS OF ALL CLASSES OF GOVERNMENT ORGANIZATIONS IN THE UNITED STATES

Government organization	1880	1890	1902	1912	1922
<b>Total (thousands of dollars)</b> .....	<b>3, 042, 605</b>	<b>1, 989, 113</b>	<b>2 2, 838, 896</b>	<b>4, 850, 460</b>	<b>30, 845, 626</b>
National <sup>2</sup> .....	1, 919, 327	851, 913	969, 457	1, 028, 564	22, 155, 886
States.....	274, 746	211, 210	1 239, 389	345, 942	935, 544
Counties.....	124, 105	145, 048	196, 565	371, 528	1, 272, 790
Incorporated places and all other civil divisions.....	724, 428	780, 942	1, 433, 505	3, 104, 426	6, 481, 406
<b>Per capita (dollars) <sup>3</sup></b> .....					
National <sup>2</sup> .....	38.27	13.60	12.22	10.59	203.78
States.....	5.48	3.37	3.03	3.57	8.64
Counties.....	2.47	2.51	2.80	4.33	13.18

<sup>1</sup> Revised figure.

<sup>2</sup> Gross debt less cash in the Treasury as of June 30, 1880, 1891, 1903, 1913, and 1923

<sup>3</sup> Not computed for incorporated places and all other civil divisions.

Source of Tables 224 and 225, Bureau of the Census, Department of Commerce

**No. 226.—REVENUES AND EXPENDITURES OF STATE GOVERNMENTS**

NOTE.—Both receipts and expenditures are net figures, excluding temporary and special transactions which represent virtually duplication. Revenue receipts do not include any receipts from borrowing of money. Outlays, which enter into the total for governmental cost payments, represent capital investments, including those made with the proceeds of borrowed money. The excess of governmental cost payments over revenue receipts represents, approximately, increase of indebtedness.

	1925			1926			1927		
	Amount (thou- sands of dollars)	Per capita (dol- lars)	Per cent of total	Amount (thou- sands of dollars)	Per capita (dol- lars)	Per cent of total	Amount (thou- sands of dollars)	Per capita (dol- lars)	Per cent of total
<b>Revenue receipts, total</b>	<b>1,485,242</b>	<b>13 19</b>	<b>100 0</b>	<b>1,655,485</b>	<b>14.29</b>	<b>100 0</b>	<b>1,758,381</b>	<b>14.99</b>	<b>100 0</b>
General property taxes	358,602	3 18	24.1	375,674	3.24	22 7	370,435	3 16	21.1
Special property and other special taxes	235,864	2 09	15 9	268,323	2.32	16 2	301,942	2.57	17.2
Inheritance taxes	85,894	.76	5 8	90,632	.78	5 5	105,947	.90	6.0
Income taxes	27,535	.24	1 9	35,628	.33	2 3	54,959	.47	3.1
Bank and other corpora- tion stock taxes	68,807	.61	4 6	65,683	.57	4 0	75,649	.64	4.3
All other	53,628	.48	3 6	73,380	.63	4 4	65,387	.56	3.7
Poll taxes	3,930	.03	3	3,659	.03	.2	3,426	.03	.2
Licenses	508,974	4.52	34 3	616,629	5 32	37.2	679,324	5 79	38.6
Special assessments	31,176	.28	2 1	28,107	.24	1 7	27,078	.23	1.5
Fines, forfeits, and escheats	7,314	.06	.5	7,507	.06	.5	7,912	.07	.4
Subventions, donations, and pension assessments	143,491	1 27	9 7	139,148	1.20	8.4	138,770	1 18	7.9
Interest, rents, and highway privileges	67,063	.60	4 5	76,265	.66	4 6	81,921	.70	4 7
Earnings of general depart- ments	118,732	1 05	8 0	129,289	1.12	7 8	134,881	1 15	7.7
Earnings of public-service enterprises	10,096	.09	7	10,894	.09	7	12,692	.11	.7
<b>Governmental-cost payments, total</b>	<b>1,614,562</b>	<b>14.34</b>	<b>100.0</b>	<b>1,614,538</b>	<b>13.94</b>	<b>100.0</b>	<b>1,726,989</b>	<b>14.72</b>	<b>100 0</b>
Operation and mainte- nance	1,043,876	9.27	64 6	1,049,311	9 06	65 0	1,129,479	9 63	65 4
General departments	1,035,478	9.19	64 1	1,040,235	8 98	64 4	1,120,005	9 55	64 9
General government	85,569	.76	5 3	86,871	.75	5 4	99,759	.85	5.8
Protection to person and property	55,834	.49	3 5	59,747	.52	3 7	63,770	.55	3 7
Development and conservation of natural resources	56,386	.50	3 5	62,696	.54	3 9	64,598	.55	3.7
Health and sanitation	24,838	.22	1 5	25,549	.22	1 6	27,825	.24	1 6
Highways	144,280	1.28	8 9	156,639	1 35	9 7	170,793	1.46	9.9
Charities, hospitals, and corrections	168,755	1 50	10 5	178,580	1 54	11.1	198,225	1 65	11 2
Education	397,700	3 53	24 6	415,282	3 59	25.7	447,044	3 81	25 9
Recreation	2,746	.02	.2	3,542	.03	.2	4,039	.03	.2
Miscellaneous	99,370	.88	6 2	51,329	.44	3 2	48,952	.42	2 8
Public-service enterprises	8,398	.07	.5	9,076	.08	.6	9,474	.08	.5
Interest	67,662	.60	4 2	76,869	.66	4 8	78,722	.67	4 6
Outlays	503,024	4.47	31 2	488,358	4 22	30 2	518,788	4 42	30 0
Highway construction	418,760	3.72	25 9	398,925	3 44	24 7	404,164	3 44	23 4
All other	84,264	.75	5 2	89,433	.77	5 4	114,624	.98	6 6

**No. 227.—STATE REVENUES AND EXPENDITURES PER CAPITA**

Year	Per capita revenue receipts			Per capita governmental cost payments for operation, maintenance, and interest		
	Total	From taxes	From all other revenue	Total	For expenses	For interest
1915	\$4 66	\$3.71	\$0.94	\$4.06	\$3 87	\$0.19
1917	5 14	4.02	1.11	4.42	4.21	.21
1919	6 43	5.02	1.40	5.42	5.18	.23
1922	10 71	7.93	2.79	8.89	8.59	.38
1923	11.38	8.37	3.01	8.73	8.28	.46
1924	12 31	9.14	3.16	9.60	9.10	.50
1925	13 19	9.82	3 35	9.87	9.27	.60
1926	14 29	10.91	3 37	9 72	9.06	.66
1927	14 99	11.55	3 44	10.30	9.63	.67

Source of Tables 226 and 227: Bureau of the Census, Department of Commerce.

**No. 228.—STATE FINANCES: TOTAL REVENUE RECEIPTS AND GOVERNMENTAL COST PAYMENTS FOR OPERATION, MAINTENANCE, AND INTEREST**

[All figures in thousands of dollars]

Division and State	Revenue receipts				Governmental cost payments for operation, maintenance, and interest			
	1915	1922	1926	1927	1915	1922	1926	1927
<b>Grand total.....</b>	<b>458,233</b>	<b>1,159,527</b>	<b>1,655,495</b>	<b>1,758,381</b>	<b>399,714</b>	<b>962,275</b>	<b>1,126,180</b>	<b>1,208,201</b>
<b>New England.....</b>	<b>45,631</b>	<b>105,214</b>	<b>123,278</b>	<b>135,792</b>	<b>37,925</b>	<b>74,142</b>	<b>89,388</b>	<b>93,570</b>
Maine.....	5,796	13,076	15,098	17,420	5,057	10,940	11,201	12,108
New Hampshire.....	2,418	6,537	7,200	7,783	1,599	4,413	5,719	5,982
Vermont.....	2,630	5,053	6,385	7,209	2,478	4,216	4,734	4,995
Massachusetts.....	24,051	51,339	55,296	60,147	19,011	33,629	41,156	42,490
Rhode Island.....	3,245	7,393	9,699	10,575	2,952	5,436	7,084	7,161
Connecticut.....	7,491	21,816	29,600	32,658	6,828	15,508	19,494	20,839
<b>Middle Atlantic.....</b>	<b>104,957</b>	<b>263,212</b>	<b>387,391</b>	<b>422,457</b>	<b>96,097</b>	<b>228,775</b>	<b>272,117</b>	<b>292,115</b>
New York.....	53,777	134,681	193,940	215,474	49,306	113,589	148,207	158,429
New Jersey.....	17,999	42,083	68,615	76,045	17,055	46,856	46,031	47,281
Pennsylvania.....	33,181	86,448	124,836	130,938	29,736	66,330	77,879	86,405
<b>East North Central.....</b>	<b>91,377</b>	<b>223,612</b>	<b>286,967</b>	<b>300,072</b>	<b>74,310</b>	<b>199,830</b>	<b>192,142</b>	<b>207,444</b>
Ohio.....	20,849	53,689	51,146	53,627	16,752	54,734	39,739	42,929
Indiana.....	10,766	25,588	42,294	43,078	9,743	19,016	24,893	26,273
Illinois.....	26,239	45,042	75,224	79,483	16,992	30,874	48,867	50,021
Michigan.....	17,703	61,738	77,989	77,456	16,916	69,777	50,258	57,028
Wisconsin.....	15,880	37,555	40,314	46,428	13,907	25,529	28,385	31,193
<b>West North Central.....</b>	<b>56,898</b>	<b>148,175</b>	<b>209,733</b>	<b>224,219</b>	<b>46,473</b>	<b>127,941</b>	<b>138,602</b>	<b>146,577</b>
Minnesota.....	19,470	42,262	57,249	63,766	13,692	29,708	36,649	40,560
Iowa.....	9,489	31,907	34,774	37,541	7,637	16,825	22,710	23,850
Missouri.....	10,001	26,871	42,095	42,772	8,875	40,047	27,148	27,190
North Dakota.....	3,801	8,752	18,491	19,428	3,551	8,009	14,839	15,296
South Dakota.....	3,204	11,059	17,474	16,338	3,015	14,117	13,425	12,758
Nebraska.....	5,116	14,944	17,362	17,287	4,207	8,611	9,696	11,012
Kansas.....	5,817	12,380	22,288	27,087	5,496	10,524	14,135	15,911
<b>South Atlantic.....</b>	<b>37,902</b>	<b>111,595</b>	<b>192,322</b>	<b>201,924</b>	<b>35,672</b>	<b>91,064</b>	<b>126,145</b>	<b>137,172</b>
Delaware.....	856	4,855	7,880	7,786	740	3,822	4,771	5,067
Maryland.....	7,497	18,463	23,218	24,440	6,750	13,533	18,573	19,670
Virginia.....	9,358	26,501	33,764	38,996	8,408	19,777	22,257	24,526
West Virginia.....	3,264	12,348	19,449	20,758	3,562	11,875	14,275	15,463
North Carolina.....	4,706	13,164	36,475	35,827	4,531	15,108	21,524	24,277
South Carolina.....	2,729	8,399	17,121	17,464	2,880	6,417	13,125	13,217
Georgia.....	6,385	17,317	25,727	29,262	6,206	12,137	20,834	20,775
Florida.....	3,107	10,548	28,688	27,391	2,595	8,895	10,786	14,177
<b>East South Central.....</b>	<b>25,301</b>	<b>59,914</b>	<b>90,408</b>	<b>95,648</b>	<b>26,217</b>	<b>47,102</b>	<b>61,211</b>	<b>66,530</b>
Kentucky.....	8,046	17,917	28,268	30,720	8,671	12,887	17,723	18,590
Tennessee.....	5,135	15,465	25,116	26,535	5,283	11,163	15,086	16,977
Alabama.....	7,178	15,382	19,948	21,999	7,338	12,532	15,568	17,939
Mississippi.....	4,942	11,150	17,076	16,394	4,925	10,520	12,834	13,024
<b>West South Central.....</b>	<b>36,534</b>	<b>84,420</b>	<b>150,020</b>	<b>158,801</b>	<b>31,867</b>	<b>79,144</b>	<b>98,708</b>	<b>108,022</b>
Arkansas.....	3,799	7,500	20,191	20,312	3,758	6,863	12,084	13,351
Louisiana.....	8,735	20,087	26,794	28,126	7,203	15,212	17,969	20,445
Oklahoma.....	5,276	14,974	30,929	31,676	4,979	12,695	15,737	17,875
Texas.....	18,724	41,859	72,106	78,687	15,927	44,374	52,916	56,851
<b>Mountain.....</b>	<b>19,086</b>	<b>61,832</b>	<b>69,477</b>	<b>71,846</b>	<b>16,469</b>	<b>38,272</b>	<b>45,476</b>	<b>50,951</b>
Montana.....	3,284	8,458	8,419	8,780	3,004	5,064	5,793	6,356
Idaho.....	2,078	5,767	7,918	8,161	1,800	4,295	4,722	5,469
Wyoming.....	1,243	6,599	8,550	8,824	1,005	2,862	4,382	5,549
Colorado.....	3,640	13,858	15,296	16,348	3,902	8,781	10,784	11,806
New Mexico.....	1,946	5,955	6,717	6,999	1,233	3,904	4,180	5,094
Arizona.....	2,248	9,427	7,714	7,710	1,919	4,854	5,622	6,020
Utah.....	3,712	8,531	11,056	11,062	2,549	6,779	7,886	8,461
Nevada.....	935	3,237	3,807	4,062	1,057	1,733	2,107	2,196
<b>Pacific.....</b>	<b>40,547</b>	<b>101,553</b>	<b>145,899</b>	<b>147,522</b>	<b>34,684</b>	<b>78,505</b>	<b>102,393</b>	<b>105,820</b>
Washington.....	11,367	22,485	31,014	35,622	7,996	13,908	21,154	23,638
Oregon.....	4,541	19,448	22,937	22,955	3,558	15,172	13,487	14,887
California.....	24,639	59,620	91,948	88,945	23,130	49,425	67,752	67,295

Source: Bureau of the Census, Department of Commerce.

**No. 229.—STATE FINANCES: REVENUE RECEIPTS AND GOVERNMENTAL COST PAYMENTS OF STATE GOVERNMENTS, 1927**

NOTE.—All figures except per capita in thousands of dollars. See headnote, Table 226

Division and State	Revenue receipts				Governmental cost payments for operation, maintenance, and interest				Outlays for permanent improvements
	Total		General and special property taxes	All other revenues	Total		Operation and maintenance	Interest	
	Amount	Per capita			Amount	Per capita			
Grand total.....	1, 758, 381	\$14 99	470, 236	1, 288, 145	1, 208, 201	\$10 30	1, 129, 479	78, 722	518, 788
New England.....	135, 792	16 64	39, 149	96, 643	93, 570	11 47	89, 654	3, 916	31, 832
Maine.....	17, 420	22 02	5, 908	11, 512	12, 103	15 30	11, 277	826	8, 007
New Hampshire.....	7, 783	17 14	2, 861	4, 922	5, 982	13 18	5, 908	74	1, 826
Vermont.....	7, 209	20 46	2, 298	4, 911	4, 995	14 17	4, 911	84	2, 057
Massachusetts.....	60, 147	14 19	18, 617	41, 530	42, 490	10 02	40, 879	1, 611	7, 035
Rhode Island.....	10, 575	15 04	4, 068	6, 507	7, 161	10 19	6, 497	664	3, 806
Connecticut.....	32, 658	20. 15	5, 397	27, 261	20, 839	12 86	20, 182	657	9, 051
Middle Atlantic.....	422, 457	17 08	110, 109	312, 348	292, 115	11 81	271, 221	20, 894	102, 353
New York.....	215, 474	18 96	38, 252	177, 222	158, 429	13 94	144, 711	13, 718	46, 935
New Jersey.....	76, 045	20 47	37, 765	38, 280	47, 281	12 73	44, 209	3, 072	24, 709
Pennsylvania.....	130, 938	13 55	34, 092	96, 846	86, 405	8 94	82, 301	4, 104	30, 709
East North Central.....	300, 072	12 30	78, 277	201, 795	207, 444	8 50	196, 012	11, 432	80, 178
Ohio.....	53, 627	8 06	7, 950	45, 677	42, 929	6 45	41, 953	976	10, 913
Indiana.....	43, 078	13 70	13, 347	29, 731	26, 273	8 36	26, 195	78	13, 846
Illinois.....	79, 483	10 96	35, 369	44, 114	50, 021	6 90	44, 076	5, 945	20, 769
Michigan.....	77, 456	17 43	34, 773	42, 683	57, 028	12 84	52, 718	4, 310	20, 993
Wisconsin.....	46, 428	16 00	6, 838	39, 590	31, 193	10 75	31, 070	123	13, 657
West North Central.....	224, 219	17 05	58, 395	165, 824	148, 577	11 15	132, 613	13, 964	70, 966
Minnesota.....	63, 766	23 89	14, 364	49, 402	40, 560	15 20	36, 700	3, 860	12, 575
Iowa.....	37, 541	15 49	11, 971	25, 570	23, 850	9 84	23, 033	817	13, 053
Missouri.....	42, 772	12 19	7, 443	35, 329	27, 190	7 75	23, 892	3, 298	19, 062
North Dakota.....	19, 428	30 30	3, 848	15, 580	15, 296	23 85	13, 664	1, 632	3, 792
South Dakota.....	16, 338	23 58	4, 778	11, 560	12, 758	18 41	9, 653	3, 105	3, 630
Nebraska.....	17, 287	12 44	6, 290	10, 997	11, 012	7 92	10, 975	37	9, 209
Kansas.....	27, 087	14 85	9, 701	17, 386	15, 911	8 72	14, 696	1, 215	9, 105
South Atlantic.....	201, 924	13 21	38, 990	164, 934	137, 172	8 98	124, 630	12, 542	100, 561
Delaware.....	7, 786	32 31	2, 128	5, 658	5, 067	21 03	4, 619	448	2, 085
Maryland.....	24, 440	15 34	6, 640	17, 800	19, 670	12 35	18, 252	1, 418	5, 134
Virginia.....	38, 996	15 40	8, 691	30, 305	24, 526	9 69	23, 762	764	12, 769
West Virginia.....	20, 758	12 33	3, 766	16, 992	15, 463	9 19	12, 952	2, 511	11, 964
North Carolina.....	35, 827	12 45	7, 655	35, 062	24, 277	8 44	18, 152	6, 125	22, 502
South Carolina.....	17, 464	9 47	3, 306	14, 158	13, 217	7 16	12, 816	401	9, 820
Georgia.....	29, 262	9 23	6, 514	22, 748	20, 175	6 36	19, 866	309	13, 255
Florida.....	27, 391	20 44	5, 180	22, 211	14, 777	11 03	14, 211	566	23, 042
East South Central.....	95, 648	10 24	28, 447	67, 201	66, 530	7 13	62, 546	3, 984	39, 669
Kentucky.....	30, 720	12 14	10, 494	20, 226	18, 590	7 34	17, 972	618	11, 143
Tennessee.....	26, 535	10 72	5, 211	21, 324	16, 977	6 86	16, 075	902	10, 963
Alabama.....	21, 999	8 65	8, 136	13, 863	17, 939	7 05	16, 265	1, 674	12, 006
Mississippi.....	16, 394	9 16	4, 606	11, 788	13, 024	7 27	12, 234	790	5, 557
West South Central.....	158, 801	13 71	43, 151	115, 650	108, 022	9 33	106, 813	1, 209	41, 012
Arkansas.....	20, 312	10 62	6, 423	13, 889	13, 351	6 98	13, 193	158	7, 344
Louisiana.....	28, 126	14 54	9, 433	18, 693	20, 445	10 57	19, 721	724	8, 981
Oklahoma.....	31, 676	13 41	2, 448	29, 228	17, 375	7 35	17, 250	125	10, 764
Texas.....	78, 687	14 66	24, 847	53, 840	56, 851	10 59	56, 649	202	13, 923
Mountain.....	71, 946	18 78	24, 300	47, 646	50, 951	13 30	48, 632	2, 319	19, 682
Montana.....	8, 780	16 00	1, 951	6, 829	6, 356	11 58	5, 928	428	1, 840
Idaho.....	8, 161	15 37	2, 234	5, 927	5, 469	10 30	5, 136	333	3, 163
Wyoming.....	8, 824	36 76	1, 498	7, 326	5, 549	23 12	5, 407	142	2, 152
Colorado.....	16, 348	15 24	5, 612	10, 736	11, 806	11 00	11, 185	621	4, 341
New Mexico.....	6, 999	17 95	1, 915	5, 084	5, 094	13 06	4, 917	177	3, 052
Arizona.....	7, 710	17 06	4, 616	3, 094	6, 020	13 32	5, 932	88	1, 524
Utah.....	11, 062	21 36	5, 195	5, 867	8, 461	16 33	8, 003	458	1, 975
Nevada.....	4, 062	52 48	1, 279	2, 783	2, 196	28 37	2, 124	72	1, 635
Pacific.....	147, 522	21 61	31, 418	116, 104	105, 820	15 50	97, 358	8, 462	32, 535
Washington.....	35, 622	22 75	16, 618	19, 004	23, 638	15 09	22, 921	717	11, 117
Oregon.....	22, 955	25 88	5, 119	17, 836	14, 887	16 78	11, 981	2, 906	7, 183
California.....	88, 945	20 33	9, 681	79, 264	67, 295	15 38	62, 456	4, 830	14, 235

Source: Bureau of the Census, Department of Commerce

# No. 230.—DEBT OF STATE GOVERNMENTS: GROSS DEBT LESS SINKING FUND ASSETS

NOTE.—For details of public debt in 1927 see Table 231

Division and State	Total (thousands of dollars)						Per capita (dollars)			
	1880	1890	1902	1912	1922	1927	1880	1902	1912	1927
<b>Grand total</b> .....	274,746	211,210	234,965	345,942	935,544	1,593,731	5.48	2.99	3.57	13.59
<b>New England</b> .....	38,746	20,435	74,961	95,570	110,458	111,415	9.16	13.06	13.92	13.65
Maine.....	5,512	3,642	2,785	1,255	12,906	21,789	8.49	3.97	1.67	27.55
New Hampshire.....	3,630	2,691	1,551	1,956	3,018	1,818	10.46	3.71	4.50	4.00
Vermont.....	151	149	363	570	2,112	1,694	.45	1.05	1.58	4.81
Massachusetts.....	20,785	9,812	65,964	79,551	76,996	64,609	11.66	22.87	22.78	15.24
Rhode Island.....	1,701	380	2,620	5,127	9,338	18,385	6.15	5.83	9.02	26.15
Connecticut.....	4,967	3,761	1,678	7,111	6,088	3,120	7.98	1.78	6.12	1.93
<b>Middle Atlantic</b> .....	22,191	6,954	8,576	86,847	252,865	401,411	2.11	.53	4.22	16.22
New York.....	7,659	1,800	8,187	86,205	186,542	244,331	1.51	1.08	9.05	21.50
New Jersey.....	649	947	( <sup>2</sup> )	642	16,355	63,294	.57	-----	.24	17.04
Pennsylvania.....	13,883	4,207	389	( <sup>2</sup> )	49,968	93,786	3.24	.06	-----	9.71
<b>East North Central</b> .....	22,180	24,960	18,598	18,105	99,446	246,158	1.98	1.13	.95	10.09
Ohio.....	10,023	6,998	4,685	5,142	30,143	20,302	3.13	1.10	1.05	3.05
Indiana.....	4,966	8,567	2,914	1,350	2,325	2,272	2.53	1.13	.49	.72
Illinois.....	1,446	1,811	2,155	2,273	13,880	142,233	.47	.43	.39	19.62
Michigan.....	3,253	5,308	6,566	7,089	50,934	79,687	1.99	2.65	2.41	17.94
Wisconsin.....	2,462	2,276	2,278	2,251	2,164	1,664	1.87	1.07	.93	.57
<b>West North Central</b> .....	26,908	17,392	10,233	8,180	74,681	160,330	4.37	.97	.68	12.19
Minnesota.....	5,417	2,426	1,755	1,345	20,308	16,712	6.94	.95	.63	6.26
Iowa.....	546	245	50	357	1,457	22,045	.34	.02	.16	9.09
Missouri.....	19,509	11,760	4,366	4,671	30,456	70,289	9.00	1.37	1.40	20.03
North Dakota.....	-----	715	968	820	5,913	5,034	-----	2.64	1.29	7.85
South Dakota.....	-----	872	457	370	15,431	18,380	-----	1.08	.58	26.52
Nebraska.....	440	254	2,005	374	1,038	2,921	.97	1.88	.31	2.10
Kansas.....	994	1,120	632	243	78	24,949	1.00	.43	.14	13.63
<b>South Atlantic</b> .....	78,908	70,218	51,645	51,942	123,630	336,235	10.39	4.86	4.07	22.00
Delaware.....	905	888	762	763	5,834	8,889	6.18	4.05	3.70	36.88
Maryland.....	11,119	7,551	4,943	7,334	22,129	23,916	11.89	4.06	5.56	15.01
Virginia <sup>1</sup> .....	32,764	34,986	23,546	22,043	21,756	27,240	21.65	12.76	10.46	10.76
West Virginia <sup>2</sup> .....	128	184	-----	-----	24,181	52,033	.21	-----	-----	30.92
North Carolina.....	15,422	7,700	6,755	8,059	34,713	164,673	11.02	3.47	3.54	57.24
South Carolina.....	7,478	7,318	6,730	6,190	8,729	36,430	7.51	4.88	3.98	19.75
Georgia.....	9,918	10,450	7,876	6,934	5,419	11,313	6.43	3.44	2.87	3.57
Florida.....	1,174	1,132	1,033	619	869	11,741	4.36	1.84	.77	8.76
<b>East South Central</b> .....	47,592	37,490	35,890	33,846	56,964	88,035	8.52	4.62	3.89	9.42
Kentucky.....	1,094	1,671	2,291	4,441	7,745	8,676	.66	1.04	1.90	3.43
Tennessee.....	30,803	19,696	17,985	11,812	19,142	19,842	19.97	8.68	5.32	8.01
Alabama.....	12,371	12,438	12,727	13,132	15,233	42,339	9.80	6.73	5.95	16.65
Mississippi.....	3,324	3,685	2,877	4,461	14,864	17,178	2.94	1.79	2.41	9.59
<b>West South Central</b> .....	35,877	25,689	19,287	26,369	28,493	34,118	10.76	2.80	2.77	2.95
Arkansas.....	6,789	5,443	1,191	1,236	2,722	3,547	8.46	.88	.76	1.85
Louisiana.....	23,438	16,008	13,593	13,546	14,829	18,766	24.94	9.48	7.89	9.70
Oklahoma.....	-----	-----	510	6,931	4,797	3,746	-----	1.10	3.74	1.59
Texas.....	5,650	4,238	3,993	4,656	6,145	8,059	3.55	1.24	1.14	1.50
<b>Mountain</b> .....	701	4,975	11,323	13,273	50,546	46,875	1.07	6.41	4.51	12.24
Montana.....	70	175	1,204	1,513	7,579	8,324	1.79	4.57	3.73	15.16
Idaho.....	83	219	324	2,143	7,673	7,028	2.54	1.84	5.92	13.24
Wyoming.....	17	320	301	122	4,011	2,718	.82	3.12	.77	11.32
Colorado.....	147	1,647	3,797	3,174	12,019	13,021	.75	6.72	3.70	12.14
New Mexico.....	-----	870	999	1,218	4,954	4,467	-----	4.94	3.41	11.45
Arizona.....	-----	757	3,099	3,065	2,740	2,115	-----	23.86	13.28	4.48
Utah.....	9	450	974	1,430	9,819	7,485	.06	3.36	3.62	14.45
Nevada.....	375	537	624	608	1,751	1,717	6.03	14.70	6.70	22.19
<b>Pacific</b> .....	3,645	3,097	4,483	11,310	138,441	169,154	3.27	1.77	2.48	24.77
Washington.....	-----	573	1,272	1,556	13,191	13,585	-----	2.31	1.21	8.68
Oregon.....	512	2	236	81	39,983	36,585	2.93	.54	.04	41.25
California.....	3,133	2,522	2,955	10,223	85,267	118,984	3.62	1.92	3.83	27.20

<sup>1</sup> Revised figure \$239,369,000, not distributed by States.<sup>2</sup> Sinking-fund assets exceed total debt.<sup>3</sup> Virginia-West Virginia debt settlement not made until 1919.

Source: Bureau of the Census, Department of Commerce.

## No. 231.—DEBT OF STATE GOVERNMENT: BY CLASSES, 1927

[All figures, except per capita, in thousands of dollars]

Division and State	Gross debt at close of year							
	Total		Funded or fixed	Floating		Special assessment bonds and certificates	Current	
	Amount	Per capita		Debt to public trust funds	All other		Revenue bonds and notes	Warrants
<b>Grand total</b> .....	1,995,428	\$17 01	1,725,729	39,378	34,903	110,221	51,339	33,858
<b>New England</b> .....	189,984	23 28	101,245	2,559	—	85,905	169	108
Maine .....	21,789	27 55	20,104	1,464	—	—	165	56
New Hampshire .....	1,831	4 03	736	1,095	—	—	—	—
Vermont .....	1,694	4 81	1,694	—	—	—	—	—
Massachusetts .....	126,463	29 83	40,546	—	—	85,905	4	8
Rhode Island .....	21,874	31 12	21,874	—	—	—	—	—
Connecticut .....	16,333	10 08	16,291	—	—	—	—	42
<b>Middle Atlantic</b> .....	518,912	20 97	516,374	822	274	—	482	960
New York .....	342,037	30 10	341,059	689	272	—	32	5
New Jersey .....	77,235	20 79	77,100	116	—	—	—	19
Pennsylvania .....	99,640	10 31	98,215	17	22	—	450	936
<b>East North Central</b> .....	266,168	10 91	242,851	14,428	—	—	184	8,705
Ohio .....	22,411	3 07	13,752	5,495	—	—	—	1,174
Indiana .....	2,272	7 72	1,650	—	—	—	134	488
Illinois .....	145,174	20 02	141,285	1,815	—	—	—	2,074
Michigan .....	96,647	21 75	84,500	7,128	—	—	50	4,969
Wisconsin .....	1,664	. 57	1,664	—	—	—	—	—
<b>West North Central</b> .....	282,402	21 47	259,639	4,399	4,109	—	5,157	9,098
Minnesota .....	61,190	22 93	56,116	—	—	—	—	5,074
Iowa .....	23,226	9 58	17,875	—	3,494	—	219	1,638
Missouri .....	73,119	20 83	68,390	4,399	—	—	51	279
North Dakota .....	32,623	50 88	32,108	—	—	—	60	455
South Dakota .....	62,711	90 49	58,650	—	615	—	2,350	1,096
Nebraska .....	2,921	2 10	—	—	—	—	2,477	444
Kansas .....	26,612	14 59	26,500	—	—	—	—	112
<b>South Atlantic</b> .....	362,814	23 74	290,256	2,100	30,300	10,250	26,452	3,456
Delaware .....	10,962	45 43	10,951	—	—	—	11	—
Maryland .....	32,594	20 46	32,551	—	—	—	43	—
Virginia .....	30,502	12 05	26,596	1,635	1,668	—	166	437
West Virginia .....	57,095	33 92	56,599	—	—	—	496	—
North Carolina .....	171,653	59 66	153,294	125	—	—	16,939	1,295
South Carolina .....	36,747	19 92	5,322	250	24,312	—	6,734	126
Georgia .....	11,416	3 60	4,943	90	4,320	—	2,063	—
Florida .....	11,845	8 84	—	—	—	10,250	—	1,595
<b>East South Central</b> .....	88,113	9 43	66,431	12,070	—	—	8,407	1,205
Kentucky .....	8,685	3 43	31	2,480	—	—	6,108	6
Tennessee .....	19,842	8 01	14,695	2,527	—	—	2,000	620
Alabama .....	42,348	16 65	36,881	4,683	—	—	239	545
Mississippi .....	17,238	9 63	14,824	2,380	—	—	—	34
<b>West South Central</b> .....	34,213	2 95	25,013	1,997	—	—	2,334	4,869
Arkansas .....	3,583	1 87	3,053	—	—	—	—	524
Louisiana .....	18,766	9 70	14,462	1,997	—	—	2,307	—
Oklahoma .....	3,865	1 61	3,134	—	—	—	—	671
Texas .....	8,099	1 50	4,364	—	—	—	21	3,674
<b>Mountain</b> .....	53,796	14 04	40,101	380	—	2,972	8,027	2,318
Montana .....	9,586	17 46	5,613	—	—	—	3,259	714
Idaho .....	7,748	14 59	5,503	—	—	—	2,021	224
Wyoming .....	3,014	12 56	1,909	—	—	—	997	108
Colorado .....	13,401	12 49	11,793	—	—	—	1,224	384
New Mexico .....	4,514	11 57	3,368	—	—	872	1	273
Arizona .....	2,979	6 59	748	—	—	2,100	—	131
Utah .....	10,645	20 55	9,705	—	—	—	525	415
Nevada .....	1,909	24 66	1,462	380	—	—	—	67
<b>Pacific</b> .....	190,028	29 15	183,819	623	220	11,094	127	3,143
Washington .....	14,914	9 52	14,200	—	41	—	—	673
Oregon .....	64,537	72 76	64,048	—	—	—	—	489
California .....	119,575	27 33	105,571	623	179	11,094	127	1,981

Source. Bureau of the Census, Department of Commerce



## No. 232.—BONDED INDEBTEDNESS OF STATES, BY PURPOSE OF ISSUE

NOTE.—All figures in thousands of dollars. Data for the various States are not of identical date but with few exceptions are as of Jan. 1, 1923, or of more recent date. Four States (Florida, Nebraska, Kentucky, and Wisconsin) have no bonded indebtedness. Kentucky owes \$10,887,000 on outstanding warrants, and Wisconsin is indebted to its trust fund to the amount of \$1,664,000. "Total debt" includes indebtedness under issues for refunding and for miscellaneous purposes not shown separately. "Education" includes universities and public-school systems (cost of buildings and maintenance). "Welfare institutions" includes special and general hospitals, insane asylums, penal institutions, and reformatory schools. "Agricultural aid" includes rural credits, State Bank of North Dakota, agricultural experiment stations, forestry, etc. "Highways" includes bridges and grade-crossing elimination. "Other improvements" includes physical improvements other than highways, waterways, or buildings. "Other military purposes" includes armories, insurrection costs, and old war debts.

Division and State	Total debt	Edu- cation	Welfare institutions	Agri- cultural aid	Public build- ings	High- ways	Water- ways and harbors	Other im- prove- ments	Sol- diers' bonus	Other military pur- poses
United States	1, 971, 354	43, 012	65, 766	120, 188	26, 562	900, 931	224, 485	141, 551	282, 430	9, 571
<b>New England:</b>										
Maine	20, 007	—	—	—	—	16, 639	—	1, 150	1, 200	751
New Hampshire	586	—	85	—	—	—	—	—	—	500
Vermont	6, 642	582	—	—	80	—	—	—	980	—
Massachusetts	122, 264	—	7, 327	—	1, 250	9, 942	6, 172	93, 041	—	4, 533
Rhode Island	21, 874	1, 260	4, 100	—	5, 195	6, 563	976	550	2, 500	730
Connecticut	16, 291	—	2, 000	—	—	—	—	—	—	—
<b>Middle Atlantic:</b>										
New York	361, 617	—	23, 500	—	—	107, 000	151, 848	39, 669	39, 600	—
New Jersey	83, 116	—	—	116	—	71, 000	—	—	12, 000	—
Pennsylvania	93, 362	—	—	—	—	93, 221	—	—	—	—
<b>East North Central:</b>										
Ohio	12, 500	—	—	—	—	—	—	—	12, 500	—
Indiana	340	340	—	—	—	—	—	—	—	—
Illinois	145, 293	—	—	—	—	97, 000	—	—	48, 275	—
Michigan	82, 250	—	—	—	—	50, 000	—	—	30, 000	—
Wisconsin	1, 1, 664	1, 1, 664	—	—	—	—	—	—	—	—
<b>West North Central:</b>										
Minnesota	89, 019	2, 471	—	46, 950	175	32, 967	—	25	5, 660	772
Iowa	16, 500	—	—	—	—	—	—	—	16, 500	—
Missouri	72, 639	4, 399	—	—	—	50, 000	—	—	18, 240	—
North Dakota	33, 359	—	—	33, 359	—	—	—	—	—	—
South Dakota	60, 500	—	—	39, 000	—	4, 500	—	2, 000	6, 000	—
Kansas	26, 500	—	—	—	—	—	—	—	26, 500	—
<b>South Atlantic:</b>										
Delaware	11, 377	562	35	—	—	10, 530	—	—	—	—
Maryland	29, 231	635	471	—	6, 750	17, 828	—	1, 469	—	—
Virginia	26, 422	2, 467	1	—	—	7, 428	—	—	—	—
West Virginia	56, 575	—	—	—	—	49, 150	—	—	—	—
North Carolina	155, 693	14, 685	23, 648	—	250	98, 500	—	1, 643	—	—
South Carolina	12, 075	—	—	250	7	—	—	—	—	( <sup>2</sup> )
Georgia	4, 893	292	—	—	—	—	—	—	—	—
<b>East South Central:</b>										
Kentucky	<sup>3</sup> 10, 887	—	—	—	—	—	—	—	—	—
Tennessee	16, 731	3, 205	568	—	1, 380	1, 000	—	40	—	—
Alabama	44, 107	—	—	—	—	26, 550	9, 000	—	—	—
Mississippi	15, 300	—	1, 500	—	1, 761	—	—	1, 860	—	—
<b>West South Central:</b>										
Arkansas	32, 128	2, 372	328	—	—	26, 000	—	—	3, 000	—
Louisiana	55, 914	—	960	—	—	2, 462	41, 636	—	—	1, 000
Oklahoma	1, 073	—	—	—	1, 000	—	—	—	—	—
Texas	4, 002	—	—	—	—	—	—	—	—	—
<b>Mountain:</b>										
Montana	5, 613	4, 981	—	—	610	—	—	—	—	—
Idaho	5, 367	340	725	—	900	2, 700	—	105	—	—
Wyoming	1, 909	—	—	—	9	1, 900	—	—	—	—
Colorado	11, 643	—	—	—	—	8, 500	—	—	—	1, 194
New Mexico	3, 870	—	125	—	284	2, 300	—	—	—	88
Arizona	2, 833	—	20	—	3	—	—	—	—	—
Utah	9, 660	300	—	—	1, 600	7, 260	—	—	—	—
Nevada	1, 842	78	373	63	298	500	—	—	—	—
<b>Pacific:</b>										
Washington	10, 200	—	—	—	—	—	—	—	10, 200	—
Oregon	65, 563	—	—	450	—	34, 467	—	—	28, 500	—
California	110, 125	2, 480	—	—	5, 010	64, 725	14, 853	—	20, 775	4

<sup>1</sup> Certificates of indebtedness to school and normal funds from general fund of State (not bonded indebtedness).

<sup>2</sup> Less than \$500.

<sup>3</sup> Outstanding warrants (not bonded indebtedness).

Source: The Bank of America, New York, N. Y.

**No. 233.—DEBT OF STATE GOVERNMENTS: GROSS DEBT, SINKING FUND ASSETS, AND GROSS DEBT LESS SINKING FUND OF THE 48 STATES COMBINED**

[All figures except per capita in thousands of dollars]

Year	Gross debt					Sinking fund assets	Gross debt less sinking fund assets	
	Total	Funded or fixed <sup>1</sup>	Floating		Current <sup>2</sup>		Amount	Per capita
			Debt to public trust funds	Other floating <sup>3</sup>				
1880	306,017	261,096	25,723		19,198	31,271	274,746	\$5 48
1890	258,195	204,641	33,642		19,912	46,985	211,210	3 37
1895	225,488	174,560	37,742		13,186	31,272	194,216	2 80
1900	265,133	214,316	30,015		11,802	29,821	235,454	3 10
1902 <sup>4</sup>	274,149	163,819	40,808		69,522	34,859	239,369	3 03
1905	278,135	228,831	38,252		11,052	39,265	238,870	2 85
1910	322,949	271,607	39,486		11,856	66,814	256,143	2 78
1912	422,797	290,494	38,530		93,773	76,981	345,942	3 57
1915	532,713	403,156	33,508	147	95,902	88,038	444,675	4 52
1917	632,809	487,545	40,990	1,294	102,480	104,844	527,465	5 18
1918	657,542	509,113	40,630	944	106,855	125,905	531,637	5 14
1919	693,623	547,346	40,648	612	105,017	116,677	516,946	5 20
1922	1,162,648	985,859	(9)	42,068	134,721	227,105	935,543	8 64
1923	1,288,830	1,083,564	38,552	6,980	159,734	274,882	1,033,948	9 43
1924	1,592,643	1,358,932	43,459	1,490	188,762	310,943	1,281,700	11 52
1925	1,745,651	1,508,127	46,306	1,225	189,903	346,687	1,398,964	12 42
1926	1,858,037	1,609,764	39,635	13,143	195,495	378,056	1,479,981	12 77
1927	1,995,428	1,725,729	39,378	34,903	195,418	401,697	1,593,731	13 59

<sup>1</sup> Prior to 1925, contingent or special assessment debt was included with funded and fixed debt. In this table, it has been excluded from funded and fixed and included with current debt, except for 1880 to 1900, 1905, and 1910, when no segregation could be made.

<sup>2</sup> Not segregated prior to 1915, included with funded and fixed.

<sup>3</sup> Includes special assessment debt, revenue bonds and notes, and warrants.

<sup>4</sup> There was an excess of sinking fund assets over gross debt in one State.

<sup>5</sup> Revised figures. <sup>6</sup> Debt to public trust funds included with "Other floating."

**No. 234.—LOCAL GOVERNMENT DEBT BY CLASSES OF CIVIL DIVISIONS: GROSS DEBT LESS SINKING FUND ASSETS, 1922**

NOTE.—All figures in thousands of dollars. For combined total, see Table 235

Division and State	Counties	Incorporated places	All other civil divisions	Division and State	Counties	Incorporated places	All other civil divisions
Grand total	1,272,790	4,703,322	1,778,084	South Atlantic—Continued.			
New England	14,557	395,823	29,871	Virginia	22,102	75,023	2 34
Maine	2,546	14,967	12,038	West Virginia	24,859	10,699	10,773
New Hampshire	621	9,814	2,670	North Carolina	67,012	67,299	13,687
Vermont	136	6,295	3,451	South Carolina	21,556	26,747	7,978
Massachusetts	9,764	242,362	820	Georgia	22,810	34,370	1,439
Rhode Island	-----	39,901	-----	Florida	29,270	39,435	28,695
Connecticut	1,490	82,484	10,892	East South Central.			
Middle Atlantic	190,130	1,968,322	205,114	Kentucky	89,729	150,384	73,456
New York	45,886	1,407,238	44,154	Tennessee	12,340	25,880	4,554
New Jersey	73,854	256,238	35,725	Alabama	43,528	65,686	4,981
Pennsylvania	70,390	304,846	125,235	Mississippi	24,025	35,940	-----
East North Central.	272,343	832,359	443,402	West South Central.	9,836	22,878	63,921
Ohio	94,490	348,412	196,398	Arkansas	142,713	243,205	290,135
Indiana	77,115	30,484	42,868	Louisiana	4,680	3,065	80,813
Illinois	28,632	171,283	150,224	Oklahoma	19,943	61,205	30,969
Michigan	42,632	218,152	50,060	Texas	21,850	60,800	42,530
Wisconsin	29,479	64,028	8,852	Mountain	96,240	118,135	135,823
West North Central.	185,524	309,751	281,587	Montana	81,151	120,763	120,516
Minnesota	81,262	103,834	64,204	Idaho	27,340	16,178	14,132
Iowa	43,228	45,167	61,762	Wyoming	11,239	14,105	29,176
Missouri	17,915	28,687	41,218	Colorado	2,444	8,672	4,001
North Dakota	5,852	12,715	15,786	New Mexico	7,784	45,186	34,209
South Dakota	6,512	12,403	16,208	Arizona	3,114	6,149	10,793
Nebraska	8,757	37,444	50,516	Utah	20,088	11,888	10,259
Kansas	21,998	69,501	31,893	Nevada	6,427	17,337	16,458
South Atlantic	201,463	353,305	64,818	Pacific	2,717	1,248	1,288
Delaware	5,961	10,656	-----	Washington	95,175	329,410	264,385
Maryland	7,893	88,920	2,012	Oregon	21,920	84,901	49,051
District of Columbia	-----	156	-----	California	19,529	53,040	25,542
					53,726	191,469	189,792

Source of Tables 233 and 234 Bureau of the Census, Department of Commerce.

# No. 235.—DEBTS OF LOCAL GOVERNMENTS: COMBINED GROSS DEBT LESS SINKING FUND ASSETS OF ALL CIVIL DIVISIONS

NOTE.—Debts of State governments are not included in this table but are included in Table 236 For subdivision by classes of government see Table 234

Division and State	Amount (thousands of dollars)					Per capita (dollars)				
	1880	1890	1902	1912	1922	1880	1890	1902	1912	1922
<b>Total</b> .....	848, 533	925, 990	1, 630, 070	3, 475, 954	7, 754, 196	16 92	14 79	20 74	35 81	71. 61
<b>New England</b> .....	128, 664	128 089	226, 516	295, 891	440, 251	32 08	27 25	39 46	43 03	57 92
Maine.....	17, 724	12, 130	12, 261	21, 543	29, 551	27 31	18 35	17 49	28 42	38 21
New Hampshire.....	7, 163	5, 457	9, 862	9, 845	13, 105	20 64	14 49	23 56	21 40	30 47
Vermont.....	4, 948	3, 637	4, 854	6, 411	9, 882	13 09	10 94	14 03	17 81	28 04
Massachusetts.....	71, 125	74, 283	143, 799	187, 678	252, 946	39 89	33 18	49 85	52 86	63 66
Rhode Island.....	11, 270	12, 619	25, 630	25, 589	39, 901	40 76	36 52	56 84	44 15	64 32
Connecticut.....	17, 034	19, 963	30, 210	44, 925	94, 866	27 36	26 75	32 11	38 01	66 09
<b>Middle Atlantic</b> .....	353, 238	314, 739	637, 311	1, 461, 733	2, 363, 566	33 65	24 78	39 62	71 06	103. 15
New York.....	211, 187	199, 455	429, 185	1, 046, 227	1, 497, 278	41 55	33 25	56 50	107 71	140. 63
New Jersey.....	48, 733	48, 311	81, 204	169, 527	365, 817	43 08	33 43	40 85	61 66	111. 42
Pennsylvania.....	93, 318	66, 973	126, 922	245, 979	500, 471	21 79	12 74	19 49	30 34	55. 72
<b>East North Central</b> .....	119, 748	140, 270	271, 361	528, 510	1, 553, 109	10 69	10 41	16 48	27 84	70 13
Ohio.....	43, 022	63, 930	112, 545	234, 525	639, 300	13 45	17 41	26 45	47 23	107 20
Indiana.....	13, 357	15, 904	31, 914	66, 053	150, 467	6 75	7 25	12 36	23 93	50 43
Illinois.....	44, 942	40, 657	78, 560	137, 208	350, 139	14 60	10 63	15 65	23 24	52 58
Michigan.....	8, 803	11, 634	28, 272	52, 908	310, 844	5 38	5 56	11 42	18 02	80 84
Wisconsin.....	9, 624	8, 145	20, 070	37, 816	102, 359	7 32	4 83	9 41	15 63	38 00
<b>West North Central</b> .....	77, 225	138, 308	188, 670	274, 790	776, 862	12 54	15 56	15 94	22 94	60 97
Minnesota.....	5, 911	23, 812	38, 929	69, 018	249, 300	7 57	18 29	21 12	31 64	101 70
Iowa.....	7, 592	11, 025	17, 390	35, 069	150, 157	4 67	5 77	7 82	15 78	61 52
Missouri.....	40, 755	39, 798	46, 031	56, 951	87, 820	18 80	14 85	14 42	16 98	25 58
North Dakota.....	132	3, 139	4, 640	12, 441	34, 353	3 57	17 18	12 67	18 83	51 95
South Dakota.....	867	5, 742	6, 127	12, 315	35, 123	8 82	17 46	14 48	19 15	54 25
Nebraska.....	7, 050	15, 283	20, 410	36, 371	96, 717	15 58	14 43	19 13	29 50	73 14
Kansas.....	14, 918	39, 509	35, 143	52, 625	123, 392	14 98	27 69	23 99	31 22	69 11
<b>South Atlantic</b> .....	89, 012	95, 235	107, 584	203, 253	619, 586	11 72	10 75	9 99	15 94	44 38
Delaware.....	1, 466	2, 031	3, 383	6, 097	16, 617	10 00	12 06	17 99	29 31	72 42
Maryland.....	30, 310	33, 741	25, 701	52, 212	98, 825	32 42	32 37	21 12	39 25	66 53
District of Columbia.....	22, 498	19, 781	14, 540	9, 061	156	126 66	53 86	50 42	26 03	. 36
Virginia.....	12, 755	10, 610	23, 934	39, 587	97, 359	8 43	10 03	12 64	18 73	41 14
West Virginia.....	1, 514	2, 348	4, 768	11, 195	46, 331	2 45	3 08	4 78	8 57	30 26
North Carolina.....	2, 540	3, 414	8, 593	20, 285	147, 908	1 81	2 11	4 41	11 38	55 93
South Carolina.....	6, 707	6, 842	9, 021	15, 097	56, 281	6 74	5 51	6 55	9 60	32 59
Georgia.....	9, 730	9, 823	13, 410	25, 614	58, 619	6 31	5 35	5 85	9 36	19 74
Florida.....	1, 492	1, 145	4, 214	17, 805	97, 400	5 53	2 92	7 52	21 96	95. 11
<b>East South Central</b> .....	31, 104	36, 636	55, 176	126, 973	313, 569	5 57	5 70	7 10	14 61	34 84
Kentucky.....	13, 858	17, 762	20, 550	25, 588	42, 774	8 42	9 56	9 32	10 95	17 51
Tennessee.....	9, 947	9, 848	14, 733	47, 287	114, 195	6 45	5 57	7 11	21 13	48 20
Alabama.....	5, 637	6, 518	14, 366	29, 930	59, 965	4 46	4 31	7 59	13 37	24 83
Mississippi.....	1, 632	2, 508	5, 527	24, 168	96, 635	1 44	1 95	3 45	12 88	53 97
<b>West South Central</b> .....	29, 410	35, 339	63, 715	211, 066	676, 063	8 82	7 78	9 25	22 18	64. 00
Arkansas.....	3, 944	2, 157	3, 034	12, 577	88, 558	4 91	1 91	2 25	7 58	49 51
Louisiana.....	19, 428	17, 327	24, 184	61, 461	112, 117	20 67	15 49	16 86	35 21	61 10
Oklahoma.....	1, 404	53, 790	125, 180	125, 180	125, 180	-----	4 50	27 74	59 48	-----
Texas.....	6, 038	15, 855	32, 457	83, 238	350, 198	3 79	7 09	10 11	19 95	72 44
<b>Mountain</b> .....	6, 106	19, 003	45, 463	99, 497	322, 239	9 35	16 43	25 75	33 78	91 96
Montana.....	695	2, 751	7, 717	16, 633	57, 650	17 75	20 82	29 30	39 68	97 40
Idaho.....	147	1, 376	3, 560	11, 987	54, 520	4 51	16 30	20 18	31 64	119 43
Wyoming.....	189	1, 327	2, 266	4, 202	15, 117	9 07	21 87	23 54	25 73	73 52
Colorado.....	3, 481	7, 811	18, 269	36, 473	87, 179	17 92	18 95	32 34	41 29	89 91
New Mexico.....	85	1, 962	3, 581	6, 444	20, 056	7 11	12 77	17 70	17 41	54 42
Arizona.....	378	2, 181	3, 492	7, 324	42, 233	9 33	36 58	26 89	31 73	117 02
Utah.....	107	767	5, 638	13, 859	40, 222	7 74	3 69	19 45	34 24	85 89
Nevada.....	1, 024	828	940	2, 575	5, 253	16 45	18 09	22 21	27 19	67 87
<b>Pacific</b> .....	14, 026	18, 371	54, 294	274, 741	688, 970	12 58	9 82	21 53	57 61	117 60
Washington.....	240	2, 846	28, 285	94, 415	155, 872	3 19	8 14	51 40	70 21	110 83
Oregon.....	337	2, 478	11, 066	43, 797	98, 111	1 93	7 90	25 57	57 86	121 27
California.....	13, 449	13, 047	14, 943	136, 529	434, 987	15 55	10 80	9 71	51 18	119. 40

<sup>1</sup> Includes \$533,000 indebtedness of local governments in Indian Territory reported separately in 1902.

Source: Bureau of the Census, Department of Commerce.

**No. 236.—DEBTS OF STATE AND LOCAL GOVERNMENTS: GROSS DEBT LESS SINKING FUND ASSETS OF STATES, COUNTIES, CITIES, TOWNS, VILLAGES, TOWNSHIPS, SCHOOL DISTRICTS, AND ALL OTHER CIVIL DIVISIONS COMBINED**

Division and State	Amount (thousands of dollars)					Per capita (dollars)				
	1880	1890	1902	1912	1922	1880	1890	1902	1912	1922
<b>Grand total</b> .....	1, 123, 279	1, 137, 200	1, 864, 978	3, 821, 897	5, 689, 740	22 40	18 16	23 73	33 37	79 62
<b>New England</b> .....	165, 410	148, 524	301, 478	390, 960	550, 709	41 24	31 60	52 52	56 95	72 48
Maine.....	23, 236	15, 772	15, 047	22, 798	42, 457	35 81	23 86	21 46	30 08	54 60
New Hampshire.....	10, 793	8, 148	11, 413	11, 300	16, 123	31 10	21 64	27 27	25 87	36 16
Vermont.....	4, 499	3, 785	5, 217	6, 981	11, 994	13 54	11 39	15 08	19 39	34 03
Massachusetts.....	91, 910	84, 095	209, 763	267, 129	329, 942	51 55	37 56	72 72	75 28	83 04
Rhode Island.....	12, 971	12, 999	28, 150	30, 716	49, 239	46 91	37 62	62 67	52 99	79 38
Connecticut.....	22, 002	23, 725	31, 888	52, 036	100, 954	35 33	31 79	33 89	44 03	70 33
<b>Middle Atlantic</b> .....	375, 430	321, 693	645, 830	1, 548, 580	2, 616, 431	35 77	25 33	40 15	75 28	114 19
New York.....	218, 846	201, 256	437, 372	1, 132, 432	1, 683, 820	43 06	33 55	57 64	116 59	158 15
New Jersey.....	40, 383	49, 258	81, 147	170, 169	382, 172	43 66	34 09	10 82	61 89	116 40
Pennsylvania.....	107, 202	71, 180	127, 311	245, 979	550, 439	25 03	13 54	19 55	30 34	61 28
<b>East North Central</b> .....	141, 928	165, 229	289, 960	546, 615	1, 652, 555	12 66	12 26	17 61	28 79	74 62
Ohio.....	53, 044	70, 927	117, 230	239, 667	669, 443	16 59	19 32	27 55	48 27	112 25
Indiana.....	18, 353	24, 472	34, 828	67, 404	152, 792	9 28	11 16	13 49	24 41	51 21
Illinois.....	40, 389	42, 468	80, 715	139, 480	364, 019	15 07	11 10	16 08	23 62	54 66
Michigan.....	12, 056	16, 942	34, 839	59, 997	361, 778	7 36	8 09	14 07	20 43	94 09
Wisconsin.....	12, 086	10, 421	22, 348	40, 067	104, 523	9 19	6 18	10 48	16 56	38 81
<b>West North Central</b> .....	104, 131	155, 700	178, 902	282, 971	851, 543	18 91	17 52	18 91	23 62	66 83
Minnesota.....	11, 328	20, 238	40, 684	70, 364	269, 698	14 51	20 15	22 02	32 26	109 99
Iowa.....	8, 138	11, 271	17, 440	35, 426	151, 614	5 01	5 90	7 84	15 94	62 11
Missouri.....	60, 264	51, 558	50, 397	61, 622	118, 276	27 79	19 24	15 79	18 37	34 46
North Dakota.....	132	3, 855	5, 603	13, 261	40, 268	3 37	21 10	15 31	20 07	60 89
South Dakota.....	867	6, 614	6, 584	12, 685	50, 554	8 32	20 11	15 56	19 72	78 09
Nebraska.....	7, 490	15, 537	22, 415	36, 745	97, 755	16 56	14 67	21 01	29 80	73 93
Kansas.....	15, 912	40, 629	35, 774	52, 968	123, 470	15 97	28 47	24 42	31 36	69 16
<b>South Atlantic</b> .....	167, 920	165, 454	159, 208	255, 195	743, 216	22 10	16 68	14 79	20 02	51 61
Delaware.....	2, 371	2, 919	4, 145	6, 860	22, 451	16 17	17 32	22 04	32 98	98 32
Maryland.....	41, 429	41, 292	30, 643	59, 546	120, 954	44 31	30 61	25 18	41 76	81 43
District of Columbia.....	22, 498	19, 781	14, 540	9, 061	156	126 66	85 86	50 42	26 03	36
Virginia.....	45, 519	51, 597	47, 481	61, 930	119, 115	30 09	31 16	25 07	29 09	50 33
West Virginia.....	1, 641	2, 532	1 4, 768	1 11, 195	70, 512	2 65	3 32	1 4 78	1 8 57	46 58
North Carolina.....	17, 963	11, 124	15, 348	34, 344	182, 711	12 83	6 87	7 88	14 88	69 03
South Carolina.....	14, 185	13, 660	15, 751	21, 287	65, 010	14 25	11 87	11 43	13 54	37 64
Georgia.....	19, 648	20, 272	21, 286	32, 548	64, 038	12 74	11 03	9 29	11 89	21 56
Florida.....	2, 666	2, 277	5, 247	18, 424	89, 269	9 89	5 81	9 36	22 72	95 96
<b>East South Central</b> .....	78, 696	74, 126	91, 055	160, 820	370, 553	14 09	11 53	11 54	18 51	41 17
Kentucky.....	14, 982	19, 433	22, 842	30, 031	50, 519	9 09	10 46	10 36	12 85	20 68
Tennessee.....	40, 760	29, 544	32, 717	59, 098	133, 337	26 42	16 71	15 79	26 41	56 27
Alabama.....	18, 008	18, 956	27, 092	43, 063	75, 198	14 26	12 53	14 32	19 24	31 37
Mississippi.....	4, 966	6, 193	8, 404	28, 628	111, 499	4 38	4 81	5 24	15 25	62 27
<b>West South Central</b> .....	65, 287	61, 028	83, 002	237, 435	704, 546	19 58	13 48	12 05	24 95	66 70
Arkansas.....	10, 733	7, 600	4, 226	13, 813	91, 280	13 37	6 73	3 13	8 32	51 03
Louisiana.....	42, 865	33, 335	37, 777	75, 007	126, 946	45 60	29 80	26 34	42 97	69 18
Oklahoma.....	—	—	2 4, 549	60, 721	129, 977	—	—	5 07	31 32	61 75
Texas.....	11, 688	20, 093	36, 450	87, 894	356, 343	7 34	8 99	11 35	21 07	73 71
<b>Mountain</b> .....	6, 807	23, 978	58, 786	112, 770	372, 776	10 42	20 74	32 16	38 28	106 39
Montana.....	765	2, 926	8, 921	18, 146	65, 229	19 54	22 15	33 87	43 29	110 20
Idaho.....	230	1, 594	3, 884	14, 131	62, 193	7 05	18 89	22 02	37 30	136 24
Wyoming.....	205	1, 647	2, 566	4, 324	19, 128	9 88	27 14	26 66	26 48	93 02
Colorado.....	3, 628	9, 458	22, 067	39, 647	99, 198	18 67	22 95	39 06	44 89	101 73
New Mexico.....	85	2, 832	4, 580	7, 662	25, 010	7 11	18 44	22 64	20 70	67 86
Arizona.....	378	2, 938	6, 592	10, 389	44, 973	9 33	49 28	50 75	45 01	124 61
Utah.....	116	1, 218	6, 613	15, 288	50, 041	8 1	5 85	22 81	37 77	106 85
Nevada.....	1, 400	1, 365	1, 564	3, 183	7, 004	22 48	29 83	27 97	33 60	90 49
<b>Pacific</b> .....	17, 670	21, 468	58, 757	286, 551	827, 411	15 85	11 48	23 30	60 08	141 23
Washington.....	239	3, 419	29, 557	95, 971	169, 033	3 19	9 78	53 71	71 37	120 21
Oregon.....	849	2, 480	11, 302	43, 828	138, 094	4 86	7 90	26 11	57 90	170 69
California.....	16, 582	15, 569	17, 898	146, 752	520, 254	19 18	12 89	11 60	55 01	142 81

<sup>1</sup> No State indebtedness reported, the Virginia-West Virginia debt settlement was not made until 1919.

<sup>2</sup> Includes \$853,000 indebtedness of local governments in Indian Territory reported separately in 1902.

Source Bureau of the Census, Department of Commerce

# No. 237.—REVENUE RECEIPTS AND GOVERNMENTAL-COST PAYMENTS OF CITIES OF 30,000 OR MORE INHABITANTS: BY SIZE GROUPS

NOTE—See headnote, Table 226

[All figures in thousands of dollars]

	All cities over 30,000 <sup>1</sup>			1927—Cities of—				
	1915	1922	1927	Over 500,000	300,000–500,000	100,000–300,000	50,000–100,000	30,000–50,000
Revenue receipts, total	940, 385	2, 007, 009	2, 945, 512	1, 655, 177	301, 984	533, 149	297, 837	157, 385
From taxes, total	641, 973	1, 441, 108	2, 047, 341	1, 157, 515	209, 304	365, 347	207, 944	107, 231
General property	570, 831	1, 337, 784	1, 888, 705	1, 063, 988	196, 947	337, 461	192, 522	97, 787
Special property		13, 372	15, 066	4, 369	511	6, 689	2, 099	1, 398
Other special taxes		27, 718	40, 391	33, 674	1, 370	6, 771	4, 111	3, 465
Business and nonbusiness license	69, 350	58, 078	88, 941	54, 738	10, 271	12, 623	7, 469	3, 840
Poll	1, 792	4, 156	5, 238	746	205	1, 803	1, 743	741
Special assessments and special charges for outlays	79, 891	103, 135	233, 293	125, 066	22, 239	43, 887	27, 874	14, 227
Fines, forfeits, and escheats	4, 449	13, 035	18, 733	8, 793	1, 598	4, 983	2, 127	1, 232
Subventions and grants	36, 141	99, 085	117, 096	58, 197	11, 089	24, 542	15, 128	8, 140
Donations, gifts, and pension assessments	3, 754	20, 020	27, 196	17, 695	3, 230	3, 447	1, 814	1, 010
Highway privileges, rents of investment property, and interest	55, 072	94, 151	136, 455	98, 453	12, 976	15, 993	6, 220	2, 813
Earnings of general departments	22, 547	51, 970	74, 456	40, 643	8, 919	12, 989	7, 653	4, 252
Earnings of public-service enterprises	96, 558	184, 505	290, 942	148, 815	32, 629	61, 961	29, 077	18, 490
Governmental-cost payments, total	1, 080, 141	2, 222, 567	3, 324, 386	1, 850, 631	333, 351	625, 252	331, 793	183, 359
Operation, maintenance, and interest, total	750, 556	1, 604, 631	2, 232, 427	1, 235, 129	230, 323	417, 696	228, 113	121, 166
Operation and maintenance (except interest), total	622, 029	1, 390, 764	1, 913, 178	1, 051, 382	197, 245	357, 594	200, 379	106, 578
General departments, total	578, 206	1, 284, 189	1, 750, 707	968, 267	178, 362	324, 633	183, 284	96, 161
General government	65, 457	113, 947	148, 061	94, 785	17, 724	18, 861	10, 722	5, 969
Protection to person and property	127, 510	257, 877	350, 341	193, 336	35, 101	67, 968	36, 283	17, 653
Health and sanitation	58, 472	126, 045	176, 996	105, 067	17, 273	30, 515	16, 117	8, 024
Highways	65, 509	111, 356	157, 198	84, 686	17, 483	29, 177	15, 942	9, 910
Charities, hospitals, and corrections	39, 298	80, 526	106, 492	69, 579	13, 389	13, 225	6, 564	3, 735
Education—								
Schools	174, 039	484, 345	645, 382	318, 422	62, 188	138, 042	83, 599	43, 131
Libraries	7, 552	16, 008	22, 881	11, 481	2, 726	4, 670	2, 665	1, 339
Recreation	21, 389	42, 283	60, 364	35, 101	5, 313	11, 259	5, 643	3, 048
Miscellaneous	18, 980	51, 802	82, 992	55, 810	7, 165	10, 916	5, 749	3, 352
Public-service enterprises	43, 823	106, 575	162, 471	83, 115	18, 883	32, 961	17, 095	10, 417
Interest	128, 527	213, 867	319, 249	183, 747	33, 078	60, 102	27, 734	14, 588
Excess of revenue receipts over operation, maintenance, and interest	189, 829	402, 378	713, 085	420, 048	71, 661	115, 453	69, 724	36, 199
Outlays for permanent improvements	329, 585	617, 936	1, 091, 959	615, 502	103, 028	207, 556	103, 680	62, 193
Excess of total governmental-cost payments over revenue receipts	139, 756	215, 558	378, 874	195, 454	31, 367	92, 103	33, 956	25, 994

<sup>1</sup> There were 204 cities of this class in 1915, 261 in 1922, and 250 in 1927.

Source Bureau of the Census, Department of Commerce.

**No. 238.—PER CAPITAL REVENUE RECEIPTS AND GOVERNMENTAL-COST PAYMENTS OF CITIES OF 30,000 OR MORE INHABITANTS**

	All cities of over 30,000			1927—Cities of—				
	1915	1922	1927	Over 500,000	300,000-500,000	100,000-300,000	50,000-100,000	30,000-50,000
<b>Revenue receipts</b> -----	<b>\$30.17</b>	<b>\$51.81</b>	<b>\$68.96</b>	<b>\$84.95</b>	<b>\$72.83</b>	<b>\$53.36</b>	<b>\$50.02</b>	<b>\$50.13</b>
From taxes-----	20 60	37 21	47.92	59 41	50 47	36 57	34 91	34 16
General property-----	18 31	34 54	44.21	54 61	47.49	33 78	32 33	31.15
Special property-----			.35	.22	.12	.67	.35	.45
Other special taxes-----	2 23	1 06	1 16	1 73	.33	.68	.69	1 10
Business and nonbusiness licenses-----		1.50	2 08	2 81	2 48	1 26	1.25	1 22
Poll-----	.06	.11	.12	.04	.05	.18	.29	.24
Special assessments and special charges for outlay-----	2 56	2.66	5.46	6 42	5 36	4.39	4 68	4.53
Fines, forfeits, and escheats-----	.14	.34	.44	.45	.39	.50	.36	.39
Subventions and grants, donations, gifts, and pension assessments-----	1.28	3.07	3.38	3.89	3.45	2.80	2.85	2.91
Highway privileges, rents of investment property and interest-----	1.76	2.43	3 19	5 05	3 13	1 60	1 04	90
Earnings of general departments-----	.72	1 34	1.74	2 09	2 15	1 30	1 29	1 35
Earnings of public-service enterprises-----	3 10	4 76	6.81	7 64	7 87	6 20	4 88	5 88
<b>Governmental-cost payments for operation, maintenance, and interest</b> -----	<b>24.08</b>	<b>41.42</b>	<b>52.26</b>	<b>63.39</b>	<b>55.54</b>	<b>41.81</b>	<b>38.31</b>	<b>38.60</b>
<b>Operation and maintenance</b> -----	<b>19 96</b>	<b>35 90</b>	<b>44 79</b>	<b>53 96</b>	<b>47.56</b>	<b>35 79</b>	<b>33 65</b>	<b>33.95</b>
General departments-----	18 55	33 15	40 98	49 69	43 01	32 49	30 78	30.63
General government-----	2 10	2 94	3 47	4 86	4 27	1 89	1 80	1.90
Protection to person and property-----	4 09	6 66	8 20	9 92	8 47	6 80	6 09	5.62
Health and sanitation-----	1 87	3 25	4.15	5 39	4.17	3 06	2.71	2.56
Highways-----	2 10	2 87	3 68	4.35	4.22	2.92	2.68	3.15
Charities, hospitals, and corrections-----	1 26	2.08	2.49	3.57	3.28	1.32	1.10	1.19
Education-----	5 58	12.50	15.11	16.34	15.00	13.82	14.04	13.74
Schools-----	.24	.41	.54	.59	.66	.47	.45	.43
Libraries-----	.69	1.09	1.41	1 80	1 28	1.13	.95	.97
Recreation-----	.61	1.34	1.94	2 86	1.73	1.09	.97	1.07
Miscellaneous-----	1.41	2 75	3 80	4 27	4 55	3 30	2.87	3.32
Public-service enterprises-----	4 12	5 52	7 47	9 43	7 98	6 02	4 66	4 65
<b>Interest</b> -----	<b>4 12</b>	<b>5 52</b>	<b>7 47</b>	<b>9 43</b>	<b>7 98</b>	<b>6 02</b>	<b>4 66</b>	<b>4 65</b>
<b>Excess of revenue receipts over payments for operation, maintenance, and interest</b> -----	<b>6.09</b>	<b>10.39</b>	<b>16.69</b>	<b>21.56</b>	<b>17.28</b>	<b>11.56</b>	<b>11.71</b>	<b>11.53</b>

**No. 239.—COMPARATIVE SUMMARY OF PER CAPITA REVENUE RECEIPTS, GOVERNMENTAL-COST PAYMENTS, AND NET DEBT OF 146 CITIES**

NOTE.—See headnote, Table 226 Table includes all cities of 30,000 or more inhabitants in 1903

Year	Per capita revenue receipts <sup>1</sup>			Per capita governmental-cost payments for operation, maintenance, and interest <sup>1</sup>					Per capita net debt
	Total	Other than of public-service enterprises	Of public-service enterprises	Total	Operation and maintenance			Inter-est	
					Total	Of general depart-ments	Of public-service enterprises		
1903 -----	\$21 14	\$18 71	\$2 42	\$16 41	\$14 35	\$13 25	\$1.10	\$2 06	\$44 71
1909 -----	26 42	23.53	2 89	20 14	17 28	16 06	1 22	2.86	61.21
1911 -----	28 07	25.09	2 98	21 24	18 17	16.91	1 26	3.07	67.52
1913 -----	28 55	25.74	2 81	22 17	19.02	17.67	1 35	3.15	69.28
1915 -----	30 00	26.97	3 03	23 92	20 34	18 95	1 39	3 58	77 86
1917 -----	31 97	28.84	3 13	24 58	20 92	19.53	1 39	3 66	80 75
1919 -----	35 26	31.65	3 61	28 07	24 18	22 28	1 90	3 89	81.18
1922 -----	53 57	48.74	4 83	42 93	37 14	34.37	2 77	5 79	97.57
1924 -----	58 41	52 42	6 00	45 62	40 42	36.89	3 53	5 29	110.09
1925 -----	61 90	55.70	6 19	47 87	42 28	38.72	3 56	5.58	119 45
1926 -----	66 14	59.55	6 60	50 30	44 27	40.51	3 76	6 03	128 13
1927 -----	69.77	63.09	6 67	52.64	46.25	42.44	3.81	6.38	134.27

<sup>1</sup> Service transfers and interest transfers included in the amounts for the year 1922

Source of Tables 238 and 239. Bureau of the Census, Department of Commerce.

## No. 240.—REVENUE RECEIPTS AND GOVERNMENTAL-COST PAYMENTS

NOTE.—Amounts, except per capita, in thousands of dollars. Minus sign indicates excess of payments

City number in order of size	City	Total revenue receipts	Total governmental-cost payments	For operation, maintenance, and interest				Out-lays for permanent improvements	Excess of revenues over—	
				Total	General department	Public-service enterprises	Interest		Total payments	Payments except out-lays
1	New York, N. Y.	557,772	554,635	434,206	327,598	16,950	89,658	120,429	3,137	123,566
2	Chicago, Ill.	240,629	238,751	161,516	140,762	7,061	13,693	127,235	-48,122	79,113
3	Philadelphia, Pa.	124,711	172,920	105,440	82,820	2,953	19,667	67,480	-48,209	19,271
4	Detroit, Mich.	143,191	171,687	99,731	66,248	22,107	11,376	71,856	-28,396	43,460
5	Cleveland, Ohio.	74,987	83,949	56,343	41,688	5,217	9,438	27,606	-8,962	18,644
6	St. Louis, Mo.	46,682	55,242	35,680	31,663	2,371	1,646	19,562	-8,560	11,002
7	Baltimore, Md.	41,417	49,952	35,776	27,322	2,150	6,304	14,176	-8,535	5,641
8	Boston, Mass.	76,143	71,919	60,122	49,815	2,938	7,369	11,797	4,234	16,031
9	Los Angeles, Calif.	131,921	154,037	80,320	58,881	11,379	10,060	74,617	-23,016	51,601
10	Pittsburgh, Pa.	48,849	61,472	39,984	33,041	2,106	4,837	21,458	-12,623	8,865
11	San Francisco, Calif.	43,803	48,731	33,131	25,627	3,684	8,820	15,000	-8,928	10,072
12	Buffalo, N. Y.	45,969	53,898	37,115	31,742	1,625	3,748	16,783	-7,929	8,854
13	Washington, D. C.	38,568	36,684	26,721	25,818	903	(C)	9,963	1,884	11,847
14	Milwaukee, Wis.	40,535	45,954	29,044	25,242	1,671	2,131	16,910	-5,429	11,481
15	Newark, N. J.	37,062	47,169	32,755	26,640	1,871	2,244	14,414	-9,507	4,907
16	Minneapolis, Minn.	27,986	29,324	21,784	18,022	715	3,047	7,540	-1,338	6,202
17	New Orleans, La.	23,742	29,502	16,871	12,062	2,279	2,530	12,631	-5,760	6,871
18	Cincinnati, Ohio.	35,247	37,005	26,533	19,607	1,277	5,649	10,472	-1,758	8,714
19	Kansas City, Mo.	21,782	30,670	20,318	16,198	1,933	2,187	10,352	-8,888	1,464
20	Seattle, Wash.	40,146	38,012	25,773	14,821	7,179	3,773	12,239	2,134	14,373
21	Indianapolis, Ind.	19,595	20,477	14,861	13,361	22	1,478	5,616	-882	4,734
22	Rochester, N. Y.	25,526	30,732	21,411	18,215	780	2,416	9,321	-5,206	4,115
23	Jersey City, N. J.	32,669	28,440	23,792	18,278	1,340	4,174	4,648	4,229	8,877
24	Louisville, Ky.	15,216	17,066	10,597	8,940	644	1,013	6,469	-1,850	4,619
25	Toledo, Ohio.	22,413	24,953	15,628	12,218	843	2,567	9,325	-2,540	6,785
26	Akron, Ohio.	11,618	14,783	8,608	5,857	398	2,353	6,175	-3,165	3,010
27	Columbus, Ohio.	15,385	17,758	11,517	8,196	936	2,885	6,241	-2,373	3,868
28	Portland, Oreg.	18,462	22,283	13,858	9,298	2,093	2,467	8,425	-3,821	4,604
29	Denver, Colo.	17,776	18,469	15,148	11,894	1,287	1,967	3,321	-693	2,628
30	Providence, R. I.	13,791	17,656	11,685	9,648	427	1,610	5,571	-3,066	2,505
31	Oakland, Calif.	16,127	24,422	11,166	9,815	371	980	13,263	-8,302	4,961
32	St. Paul, Minn.	13,481	14,432	10,732	7,987	671	2,074	3,700	-951	2,749
33	Atlanta, Ga.	11,683	12,161	9,098	7,816	605	677	3,063	-473	2,585
34	Omaha, Nebr.	14,071	14,775	10,724	6,403	2,339	1,982	4,051	-704	3,347
35	Birmingham, Ala.	8,595	11,029	6,132	5,007	158	967	4,897	-2,434	2,463
36	San Antonio, Tex.	7,098	8,586	6,106	4,494	367	1,245	2,480	-888	1,592
37	Dallas, Tex.	8,980	10,355	7,422	5,791	496	1,135	2,933	-1,375	1,558
38	Syracuse, N. Y.	12,602	18,801	10,272	8,707	268	1,297	8,529	-6,199	2,330
39	Houston, Tex.	10,764	15,071	8,444	6,206	415	1,823	6,627	-4,307	2,320
40	Worcester, Mass.	12,959	13,690	10,358	9,388	291	679	3,332	-731	2,601
41	Richmond, Va.	10,821	10,719	8,199	5,433	1,187	1,579	2,520	102	2,622
42	New Haven, Conn.	8,784	8,923	7,079	6,501	6	572	1,844	-139	1,705
43	Dayton, Ohio.	8,325	11,485	6,698	5,406	257	1,035	4,787	-2,660	1,217
44	Norfolk, Va.	7,410	7,270	6,495	4,094	403	1,998	775	140	915
45	Memphis, Tenn.	8,116	9,030	7,006	5,182	527	1,297	2,024	-914	1,110
46	Bridgeport, Conn.	7,869	8,831	6,111	5,950	8	653	2,220	-1,222	998
47	Youngstown, Ohio.	8,049	8,130	5,565	4,343	347	875	2,565	-81	2,484
48	Hartford, Conn.	10,484	11,134	8,879	7,187	715	777	2,455	-650	1,805
49	Fort Worth, Tex.	5,283	10,121	4,819	3,460	299	860	5,502	-4,838	664
50	Grand Rapids, Mich.	9,835	11,582	6,907	5,678	447	782	4,675	-1,747	2,928
51	Springfield, Mass.	10,852	10,065	8,805	7,661	455	689	1,260	-737	2,047
52	Des Moines, Iowa.	7,900	8,294	6,043	4,845	302	896	2,251	-394	1,857
53	Tulsa, Okla.	6,549	6,593	4,248	3,013	331	904	2,345	-44	2,301
54	Scranton, Pa.	5,739	6,250	4,751	4,467	(C)	284	1,499	-511	988
55	Paterson, N. J.	7,238	9,491	6,819	5,751	-----	1,068	2,672	-2,253	419
56	Jacksonville, Fla.	7,581	10,945	6,121	3,717	1,583	821	4,824	-3,364	1,460
57	Nashville, Tenn.	5,206	5,806	3,984	3,003	326	655	1,822	-600	1,222
58	Flint, Mich.	7,761	6,965	4,971	3,876	221	874	1,994	796	2,790
59	Trenton, N. J.	6,860	7,993	6,465	5,232	514	719	1,528	-1,133	395
60	Salt Lake City, Utah.	6,072	5,994	4,723	3,842	293	588	1,271	78	1,249
61	Camden, N. J.	6,103	6,245	5,487	4,324	353	810	758	-142	616
62	Fall River, Mass.	7,848	7,517	6,396	5,403	322	671	1,121	331	1,452
63	Miami, Fla.	8,174	20,336	9,067	7,177	294	1,596	11,269	-12,162	-893
64	Wilmington, Del.	4,085	4,212	3,829	2,667	469	493	383	-127	256
65	Erie, Pa.	5,077	5,749	3,840	3,016	365	459	1,909	-672	1,237
66	Cambridge, Mass.	7,265	7,118	6,172	5,228	433	511	946	147	1,093
67	New Bedford, Mass.	8,090	7,041	6,131	5,152	272	707	1,810	149	1,660
68	Albany, N. Y.	7,852	9,678	6,157	4,756	574	827	3,521	-1,826	1,695
69	Yonkers, N. Y.	9,861	12,743	8,419	6,865	440	1,124	4,324	-2,882	1,442
70	Kansas City, Kans.	7,360	5,663	5,146	2,841	1,443	862	517	1,697	2,214
71	San Diego, Calif.	11,908	11,796	6,047	4,552	673	822	5,749	112	5,861
72	Duluth, Minn.	7,261	8,741	5,122	3,711	774	637	3,619	-1,480	2,139
73	Reading, Pa.	4,607	6,944	3,705	3,008	281	416	3,239	-2,337	902
74	Canton, Ohio.	5,560	5,687	4,088	2,865	205	1,016	1,601	-127	1,474
75	Elizabeth, N. J.	4,952	5,325	4,061	3,594	5	462	1,264	-373	891

1 Less than \$500.

2 Less than one-half of 1 cent

3 Not reported.

## OF INDIVIDUAL CITIES OF 100,000 OR MORE INHABITANTS, 1927

Per capita figures not computed for certain cities due to absence of accurate population figures

Per capita revenue receipts			Per capita governmental-cost payments for operation, maintenance, and interest						City	City number in order of size
1915	1922	1927	Total			Interest				
1915	1922	1927	1915	1922	1927	1915	1922	1927		
\$38.67	\$69.94	\$93.42	\$35.95	\$57.31	\$72.72	\$9.55	\$12.09	\$15.02	New York, N. Y.	1
33.63	54.20	77.55	22.99	39.92	52.06	1.61	2.88	4.41	Chicago, Ill.	2
27.29	47.55	61.26	23.60	43.34	51.79	2.74	5.20	9.66	Philadelphia, Pa.	3
32.15	65.33	109.11	24.16	50.10	76.00	1.56	4.76	8.67	Detroit, Mich.	4
28.50	62.55	76.17	22.12	47.92	57.23	3.95	7.45	9.59	Cleveland, Ohio.	5
31.62	44.88	56.07	22.55	34.05	42.85	1.17	1.20	1.98	St. Louis, Mo.	6
27.44	39.97	50.57	23.76	35.17	43.68	5.26	5.64	7.70	Baltimore, Md.	7
47.47	80.55	96.02	40.72	63.52	75.81	8.15	8.63	9.29	Boston, Mass.	8
53.98	79.81	—	32.15	18.30	—	3.96	4.56	—	Los Angeles, Calif.	9
35.76	61.50	73.40	29.22	49.92	60.08	4.84	5.94	7.27	Pittsburgh, Pa.	10
43.52	57.67	76.66	30.48	44.51	57.98	4.22	5.09	6.68	San Francisco, Calif.	11
33.17	52.97	84.02	27.69	48.11	67.84	3.29	3.18	6.85	Buffalo, N. Y.	12
42.47	57.27	72.22	28.99	42.03	50.04	70	.41	(2)	Washington, D. C.	13
30.10	59.50	76.30	21.97	41.07	54.69	1.36	2.84	4.01	Milwaukee, Wis.	14
31.03	61.40	80.70	28.91	52.93	70.18	5.13	7.17	9.09	Newark, N. J.	15
30.52	54.01	62.51	22.38	41.57	48.66	2.96	4.98	6.81	Minneapolis, Minn.	16
22.65	44.46	55.94	19.66	35.63	39.75	4.69	4.95	5.96	New Orleans, La.	17
34.28	64.38	85.51	20.58	49.41	61.37	6.81	11.39	13.70	Cincinnati, Ohio.	18
36.18	51.11	57.68	21.39	45.38	53.81	1.94	2.61	5.79	Kansas City, Mo.	19
47.65	93.85	—	30.04	80.41	—	6.76	12.26	—	Seattle, Wash.	20
22.93	49.73	52.35	16.52	35.57	39.70	7.72	3.32	3.95	Indianapolis, Ind.	21
30.23	56.53	78.66	23.55	47.71	65.98	3.17	5.64	7.45	Rochester, N. Y.	22
23.15	55.94	101.62	18.90	54.67	74.00	4.18	9.74	12.98	Jersey City, N. J.	23
24.86	33.85	47.98	19.00	27.60	33.42	2.40	2.41	3.19	Louisville, Ky.	24
23.27	42.88	73.39	18.05	36.51	51.17	2.86	5.41	8.11	Toledo, Ohio.	25
23.03	40.05	—	18.83	29.86	—	4.22	6.53	—	Akron, Ohio.	26
24.52	44.68	52.80	19.53	34.63	39.52	3.77	6.53	8.19	Columbus, Ohio.	27
38.17	55.25	—	25.15	38.26	—	6.42	6.75	—	Portland, Oreg.	28
25.93	52.07	61.34	20.91	40.79	52.27	2.07	3.74	6.79	Denver, Colo.	29
26.74	46.56	49.41	21.42	57.04	41.86	3.09	4.23	5.77	Providence, R. I.	30
32.89	39.36	61.11	20.61	32.32	42.31	2.30	2.02	3.71	Oakland, Calif.	31
22.21	46.00	53.90	19.85	36.42	42.91	2.92	3.91	8.29	St. Paul, Minn.	32
21.16	33.19	46.92	15.89	25.29	36.54	1.19	.89	2.72	Atlanta, Ga.	33
29.91	68.18	64.19	23.46	43.24	48.92	5.73	7.07	9.04	Omaha, Neb.	34
16.52	25.38	40.13	12.11	21.50	28.63	2.98	3.22	4.51	Birmingham, Ala.	35
17.00	26.20	37.10	15.13	21.91	29.43	2.79	3.59	6.00	San Antonio, Tex.	36
30.26	38.79	43.55	17.63	31.07	36.24	2.75	3.93	5.54	Dallas, Tex.	37
26.00	49.82	63.97	19.82	38.01	52.14	3.01	5.34	6.58	Syracuse, N. Y.	38
26.36	42.40	—	19.30	33.76	—	4.72	6.04	—	Houston, Tex.	39
29.53	48.07	66.35	23.59	41.05	53.03	3.25	3.33	3.48	Worcester, Mass.	40
28.77	43.90	56.36	22.76	34.93	42.70	4.20	5.31	8.22	Richmond, Va.	41
20.46	36.49	47.51	16.39	32.09	38.29	1.13	2.46	3.10	New Haven, Conn.	42
24.01	40.14	48.84	16.69	28.30	37.07	2.59	3.74	5.73	Dayton, Ohio.	43
21.76	40.94	41.35	19.97	43.22	36.25	4.76	9.38	11.15	Norfolk, Va.	44
22.50	39.90	45.36	20.76	33.28	39.16	4.60	6.76	7.25	Memphis, Tenn.	45
20.09	48.39	—	15.00	40.54	—	1.01	3.70	—	Bridgeport, Conn.	46
20.97	38.19	47.52	13.91	34.89	32.85	1.98	6.05	5.16	Youngstown, Ohio.	47
33.38	53.57	63.46	26.23	41.23	52.51	3.77	4.53	4.70	Hartford, Conn.	48
17.93	35.88	32.51	15.25	26.92	28.42	3.15	3.80	5.30	Fort Worth, Tex.	49
24.84	42.25	62.68	16.90	30.99	44.02	1.58	2.12	4.99	Grand Rapids, Mich.	50
36.07	59.01	73.72	30.56	47.75	59.52	3.29	3.75	4.68	Springfield, Mass.	51
21.05	58.48	53.85	17.78	38.69	41.19	1.64	3.93	6.11	Des Moines, Iowa.	52
(3)	33.08	44.92	(3)	30.70	29.14	(3)	3.72	6.20	Tulsa, Okla.	53
14.27	29.24	39.88	12.01	24.47	33.02	1.47	1.21	1.98	Scranton, Pa.	54
16.80	34.47	50.33	13.70	29.78	47.42	2.04	3.27	7.42	Paterson, N. J.	55
27.41	47.78	—	21.93	42.32	—	1.64	6.51	—	Jacksonville, Fla.	56
19.01	28.01	37.78	17.66	23.61	28.91	2.61	4.48	4.75	Nashville, Tenn.	57
19.12	46.02	56.44	11.01	31.89	36.15	1.54	5.44	6.35	Flint, Mich.	58
21.76	38.90	50.19	18.23	34.38	47.30	3.02	3.39	5.26	Trenton, N. J.	59
27.29	44.10	44.74	19.90	35.95	34.80	3.04	5.35	4.33	Salt Lake City, Utah.	60
17.18	35.25	45.85	15.95	31.84	41.22	2.56	3.83	6.09	Camden, N. J.	61
22.59	52.05	59.18	17.95	40.63	48.23	2.48	3.30	5.06	Fall River, Mass.	62
(3)	53.05	62.07	(3)	44.18	68.85	(3)	10.24	12.11	Miami, Fla.	63
14.93	32.50	32.61	12.45	25.45	30.56	2.02	2.99	3.94	Wilmington, Del.	64
19.45	35.65	—	13.08	27.76	—	77	2.82	—	Erie, Pa.	65
29.42	48.44	59.30	25.27	44.67	50.39	5.17	5.03	4.17	Cambridge, Mass.	66
27.97	54.50	67.08	21.18	45.29	51.29	3.94	5.65	5.91	New Bedford, Mass.	67
28.69	41.26	65.70	21.97	38.74	51.53	3.03	3.59	6.92	Albany, N. Y.	68
27.85	66.27	83.00	30.63	54.45	70.87	5.88	8.06	9.46	Yonkers, N. Y.	69
22.72	45.42	62.64	16.96	38.65	43.79	4.02	4.36	7.34	Kansas City, Kans.	70
68.01	62.86	62.64	16.96	38.65	43.79	4.02	4.36	7.34	Kansas City, Kans.	70
34.50	54.34	63.30	21.54	36.58	44.66	3.77	4.18	5.55	San Diego, Calif.	71
13.63	26.13	40.24	11.01	23.36	32.36	71	1.42	3.63	Duluth, Minn.	72
16.74	42.26	49.07	12.91	30.68	36.06	2.21	7.47	8.96	Reading, Pa.	73
17.31	36.80	—	13.84	25.25	—	2.11	3.43	—	Canton, Ohio.	74
									Elizabeth, N. J.	75



**No. 240.—REVENUE RECEIPTS AND GOVERNMENTAL-COST PAYMENTS OF**  
**[Amounts, except per capita,**

City number in order of size	City	Total revenue receipts	Total governmental cost payments	For operation, maintenance, and interest				Outlays for permanent improvements	Excess of revenues over—	
				Total	General departments	Public-service enterprises	Interest		Total payments	Payments except outlays
76	Oklahoma City, Okla.	5,614	5,706	4,088	3,013	233	842	1,618	—92	1,526
77	Lowell, Mass.	5,818	5,309	4,747	4,063	373	311	553	518	1,071
78	El Paso, Tex.	3,744	2,945	2,747	2,057	196	494	199	798	997
79	Spokane, Wash.	4,953	4,903	3,946	3,456	192	298	957	50	1,007
80	Tacoma, Wash.	7,726	7,253	5,500	3,181	1,637	682	1,758	468	2,226
81	Waterbury, Conn.	5,622	7,654	5,144	4,264	113	767	2,510	—2,032	478
82	Lynn, Mass.	5,060	5,498	4,265	3,623	300	342	1,233	—438	795
83	Tampa, Fla.	5,746	12,862	4,832	3,458	578	796	8,030	—7,116	914
84	Utica, N. Y.	5,321	6,292	4,038	3,586	1	451	2,254	—971	1,283
85	Port Wayne, Ind.	6,608	6,630	3,730	2,770	752	208	2,900	—22	2,878
86	Somerville, Mass.	4,034	3,989	3,505	3,120	159	226	434	45	529
87	Knoxville, Tenn.	3,835	7,367	3,671	2,494	267	910	3,696	—3,532	164
88	Long Beach, Calif.	12,099	13,254	7,760	5,041	1,924	795	5,494	—1,155	4,339

\* Not reported.

**No. 241.—PRINCIPAL SOURCES OF REVENUE RECEIPTS OF**

NOTE.—For total revenue receipts see Table 240 Receipts from borrowing are not included.

City number in order of size	City	Amount of revenue receipts (thousands of dollars) from—						
		Taxes			Special assessments and charges for outlays	Earnings of—		High-way privileges, rents, and interest
		General property	License	Other		General departments	Public service enterprises	
1	New York, N. Y.	374,058	21,766	22,405	22,979	5,717	35,297	40,243
2	Chicago, Ill.	158,492	8,550	131	30,202	7,945	13,238	14,779
3	Philadelphia, Pa.	85,204	1,611	52	2,197	4,305	7,988	18,913
4	Detroit, Mich.	80,277	2,198	843	16,114	4,270	31,450	1,818
5	Cleveland, Ohio	48,107	1,722	519	7,574	3,412	9,198	3,435
6	St. Louis, Mo.	29,232	2,856	—	5,287	1,714	3,925	2,495
7	Baltimore, Md.	28,260	1,477	880	1,064	621	4,402	2,965
8	Boston, Mass.	53,467	524	8,618	572	2,235	4,375	5,125
9	Los Angeles, Calif.	63,010	4,992	—	27,915	3,853	23,118	3,120
10	Pittsburgh, Pa.	38,113	609	330	990	1,183	3,047	2,589
11	San Francisco, Calif.	27,622	2,026	—	3,142	1,242	6,132	971
12	Buffalo, N. Y.	32,286	1,292	1,590	2,453	872	2,994	1,047
13	Washington, D. C.	20,700	4,411	4	687	1,422	1,344	159
14	Milwaukee, Wis.	25,160	704	3,418	3,890	1,852	2,307	793
15	Newark, N. J.	25,653	1,166	341	1,471	1,353	3,138	1,708
16	Minneapolis, Minn.	20,415	345	145	2,698	767	1,039	629
17	New Orleans, La.	15,634	1,246	109	1,268	693	3,111	568
18	Cincinnati, Ohio	21,812	1,575	493	1,375	1,493	2,579	4,617
19	Kansas City, Mo.	14,792	1,450	—	1,697	2,127	1,310	1,303
20	Seattle, Wash.	16,444	188	—	6,310	808	13,458	720
21	Indianapolis, Ind.	15,842	220	47	1,768	717	44	194
22	Rochester, N. Y.	16,527	1,010	697	2,392	761	1,587	522
23	Jersey City, N. J.	15,474	1,117	140	2,030	548	2,124	1,300
24	Louisville, Ky.	9,619	771	—	1,092	489	2,001	439
25	Toledo, Ohio	14,729	1,183	115	3,028	618	1,421	969
26	Akron, Ohio	7,087	470	87	1,620	390	1,276	424
27	Columbus, Ohio	10,044	662	197	1,392	357	1,700	835
28	Portland, Oreg.	9,991	281	—	3,117	299	2,381	536
29	Denver, Colo.	11,597	441	—	1,602	788	2,468	495
30	Providence, R. I.	10,343	79	67	188	438	1,545	770
31	Oakland, Calif.	9,344	272	—	3,000	250	2,226	272
32	St. Paul, Minn.	8,528	557	29	1,696	242	1,022	736
33	Atlanta, Ga.	5,680	695	72	1,377	363	2,530	436
34	Omaha, Nebr.	7,848	193	—	1,327	196	3,789	456
35	Birmingham, Ala.	3,579	1,164	—	1,695	314	203	227
36	San Antonio, Tex.	5,340	74	—	153	153	1,225	130
37	Dallas, Tex.	5,721	45	—	52	544	1,228	354
38	Syracuse, N. Y.	7,864	439	501	1,687	215	868	232
39	Houston, Tex.	8,101	88	—	12	312	949	566
40	Worcester, Mass.	8,779	49	1,738	189	725	878	238
41	Richmond, Va.	5,960	802	127	136	141	2,349	778
42	New Haven, Conn.	7,551	64	178	49	262	3	206
43	Dayton, Ohio	6,337	396	72	420	316	695	319
44	Norfolk, Va.	4,985	515	31	41	98	1,094	370

<sup>1</sup> Large amount of delinquent taxes collected from railways in 1927.

INDIVIDUAL CITIES OF 100,000 OR MORE INHABITANTS, 1927—Continued  
in thousands of dollars]

Per capita revenue receipts			Per capita governmental-cost payments for operation, maintenance, and interest						City	City number in order of size
			Total			Interest				
1915	1922	1927	1915	1922	1927	1915	1922	1927		
\$14 56	\$52.00	-----	\$13 34	\$35 51	-----	\$3 67	\$5 24	-----	Oklahoma City, Okla.	76
20 83	41.66	\$52.75	18 22	38 93	\$43 04	2 10	3 00	\$2 82	Lowell, Mass.	77
29 63	21 07	34.04	19.50	26 32	24 97	3 10	3 46	4 48	El Paso, Tex.	74
27 84	48 98	45 44	19 51	35 57	36 20	4.95	3 79	2 73	Spokane, Wash.	79
37.10	61 58	72 07	23 34	43 97	51 30	5 00	4 53	6.36	Tacoma, Wash.	80
19 19	42 61	-----	15 78	40 92	-----	1 88	5 07	-----	Waterburg, Conn.	81
24 86	40 91	45.28	19 58	35 72	40 69	2 57	3 33	3 26	Lynn, Mass.	82
23 39	32 07	54.90	17 40	30 09	46 24	3 13	4.79	7 62	Tampa, Fla.	83
20 14	35 05	51 46	15 30	29 99	39 05	1 27	2 02	4 36	Utica, N. Y.	84
25 73	42.59	64.09	13 72	29 48	36 18	.50	1.54	2 02	Fort Wayne, Ind.	85
22 84	33 32	39 71	19 43	28.26	34 50	2 37	2 20	2 23	Somerville, Mass.	86
22 77	31 20	37 89	17 49	33 33	36 28	4 59	6 77	9 00	Knoxville, Tenn.	87
( <sup>1</sup> )	56 83	119.79	( <sup>2</sup> )	38 59	76 83	( <sup>3</sup> )	3 48	7 87	Long Beach, Calif.	88

Source Bureau of the Census, Department of Commerce

INDIVIDUAL CITIES OF 100,000 OR MORE INHABITANTS, 1927

Per capita figures not computed for certain cities owing to absence of accurate population figures

Per capita revenue receipts (dollars) from—								City	City number in order of size
Taxes			Special assessments and charges for out-lays	Earnings of—		Highway privileges, rents, and interest	All other		
General property	License	Other		General departments	Public-service enterprises				
62 65	3 65	3 75	3 85	96	5 91	6 74	5 92	New York, N. Y.	1
51 08	2 76	.04	9 73	2 56	4 27	4 76	2 35	Chicago, Ill.	2
41 85	.79	.03	1 08	2 11	3 92	9 29	2 18	Philadelphia, Pa.	3
61 17	1 67	.64	12 28	3 25	23 97	1 39	4 74	Detroit, Mich.	4
48 86	1 75	.53	7 69	3 47	9 34	3 49	1 04	Cleveland, Ohio.	5
35 11	3 43		6 35	2 06	4 71	3 06	1 41	St. Louis, Mo.	6
34 51	1.80	1 07	1 30	76	5 37	3 62	2 14	Baltimore, Md.	7
67 41	.66	10 87	.72	2 82	5 52	6 46	1 56	Boston, Mass.	8
								Los Angeles, Calif.	9
57 27	91	.50	1 49	1 78	4 58	3 89	2 99	Pittsburgh, Pa.	10
48 34	3 54		5 50	2 17	10.73	1 70	4 67	San Francisco, Calif.	11
59 01	2 36	2 91	4 48	1 59	5 47	1 91	6.28	Buffalo, N. Y.	12
38 76	8.26	01	1 29	2 66	2 52	.30	18 43	Washington, D. C.	13
47 37	1.33	6 44	7 32	3 49	4 34	1 49	4 53	Milwaukee, Wis.	14
54 98	2 50	73	3 15	2 91	6 72	3 66	6 05	Newark, N. J.	15
45 60	77	.32	6 03	1 71	2 32	1 40	4 35	Minneapolis, Minn.	16
36 84	2 94	.26	2 99	1.63	7.33	1 34	2 63	New Orleans, La.	17
52 92	3 82	1 20	3 34	3 62	6 26	11 20	3 17	Cincinnati, Ohio	18
39 17	3 84		1.85	1 77	5 63	3 47	1 96	Kansas City, Mo.	19
								Seattle, Wash.	20
42 32	.59	.13	4 72	1 92	12	.52	2 04	Indianapolis, Ind.	21
50 73	3 11	2 15	7 37	2 34	4 89	1 61	6 26	Rochester, N. Y.	22
1 79 24	3 47	.43	6 62	1 70	6 61	4 04	5 49	Jersey City, N. J.	23
30 33	2 43		3 26	1 54	6 31	1 39	2 72	Louisville, Ky.	24
48 23	3 87	.38	9 92	2 02	4 65	3 18	1 14	Toledo, Ohio.	25
								Akron, Ohio.	26
34 47	2 27	.68	4 78	1 22	5 83	2.87	68	Columbus, Ohio.	27
								Portland, Oreg.	28
40 02	1 52		5 53	2 72	8.52	1 71	1 33	Denver, Colo.	29
37 06	.28	24	67	1.57	5 53	2 76	1 29	Providence, R. I.	30
35.41	1.03		11 37	.95	.86	1 03	10 47	Oakland, Calif.	31
34 10	2 23	.12	6 78	.97	4 09	2 94	2 68	St. Paul, Minn.	32
22 81	2 79	29	5 53	1 46	10 16	1 75	2 13	Atlanta, Ga.	33
35 80	.88		6 06	.89	17.29	2 08	1 19	Omaha, Nebr.	34
16 71	5 43		7 91	1 46	.95	1 06	6 60	Birmingham, Ala.	35
25 73	.34		25	74	5 90	.63	3 51	San Antonio, Tex.	36
27 94	.22		1 44	2.66	6 00	1 73	3 87	Dallas, Tex.	37
39 92	2 23	2 54	8 57	1 09	4 40	1 18	4 04	Syracuse, N. Y.	38
								Houston, Tex.	39
44.95	.25	8 90	97	3 71	4 49	1 22	1 86	Worcester, Mass.	40
31 04	4 18	.66	71	73	12 24	4 05	2 75	Richmond, Va.	41
40 84	.35	.96	27	1 42	.01	1 12	2 54	New Haven, Conn.	42
35 07	2 19	40	2 32	1 75	3 84	1 76	1 49	Dayton, Ohio.	43
27 82	2.87	17	23	.55	6 10	2 07	1 54	Norfolk, Va.	44

## No. 241.—PRINCIPAL SOURCES OF REVENUE RECEIPTS OF IND

City number in order of size	City	Amount of revenue receipts (thousands of dollars) from—							
		Taxes			Special assessments and charges for out-lays	Earnings of—		Highway privileges, rents, and interest	All other
		General property	License	Other		General departments	Public service enterprises		
45	Memphis, Tenn. ....	5,390	363	-----	278	238	1,253	154	440
46	Bridgeport, Conn. ....	6,848	26	205	63	168	13	83	203
47	Youngstown, Ohio. ....	5,806	287	91	814	92	604	226	129
48	Hartford, Conn. ....	5,981	92	2,149	326	247	1,207	226	256
49	Fort Worth, Tex. ....	3,688	22	-----	-----	145	787	160	481
50	Grand Rapids, Mich. ....	6,320	84	-----	1,267	372	830	168	794
51	Springfield, Mass. ....	7,884	45	1,457	282	287	614	60	223
52	Des Moines, Iowa. ....	5,771	51	-----	857	132	814	112	163
53	Tulsa, Okla. ....	4,025	180	-----	941	13	798	181	411
54	Scranton, Pa. ....	4,511	81	131	269	145	1	147	454
55	Paterson, N. J. ....	5,260	373	61	298	208	-----	396	642
56	Jacksonville, Fla. ....	3,538	143	2	163	93	3,235	202	205
57	Nashville, Tenn. ....	3,319	56	-----	214	116	611	198	692
58	Flint, Mich. ....	4,908	37	-----	753	463	936	99	475
59	Trenton, N. J. ....	4,699	117	67	247	230	617	348	535
60	Salt Lake City, Utah. ....	3,851	138	-----	423	172	489	76	923
61	Camden, N. J. ....	3,415	390	55	627	98	657	394	467
62	Fall River, Mass. ....	5,402	24	1,502	23	149	424	113	211
63	Miami, Fla. ....	5,934	375	20	557	326	472	100	390
64	Wilmington, Del. ....	2,256	104	(?)	150	29	541	73	932
65	Erie, Pa. ....	3,254	39	178	542	72	634	77	281
66	Cambridge, Mass. ....	4,968	70	1,074	17	277	580	173	106
67	New Bedford, Mass. ....	5,349	30	1,575	158	210	473	83	212
68	Albany, N. Y. ....	5,269	169	407	658	42	714	76	517
69	Yonkers, N. Y. ....	7,329	117	405	258	60	744	128	820
70	Kansas City, Kans. ....	3,890	114	-----	740	28	2,408	146	34
71	San Diego, Calif. ....	5,302	129	-----	3,459	192	1,350	238	1,238
72	Duluth, Minn. ....	4,451	58	14	873	44	1,352	133	336
73	Reading, Pa. ....	3,165	58	80	97	89	741	113	254
74	Canton, Ohio. ....	3,815	239	29	424	159	421	230	243
75	Elizabeth, N. J. ....	3,298	186	34	543	88	6	362	437
76	Oklahoma City, Okla. ....	3,263	158	-----	891	149	680	188	285
77	Lowell, Mass. ....	4,011	22	1,024	59	116	394	18	174
78	El Paso, Tex. ....	2,714	14	-----	4	78	436	118	380
79	Spokane, Wash. ....	2,816	27	-----	169	214	588	119	1,020
80	Tacoma, Wash. ....	2,607	43	-----	822	171	2,947	197	939
81	Waterbury, Conn. ....	4,793	43	88	91	46	372	37	152
82	Lynn, Mass. ....	3,388	34	686	56	176	536	78	106
83	Tampa, Fla. ....	3,468	289	4	616	222	657	119	371
84	Utica, N. Y. ....	3,546	107	251	806	35	13	57	506
85	Fort Wayne, Ind. ....	3,260	41	47	1,824	43	1,165	42	186
86	Somerville, Mass. ....	2,863	21	524	86	108	319	19	94
87	Knoville, Tenn. ....	2,378	90	2	162	123	602	92	386
88	Long Beach, Calif. ....	4,692	254	-----	2,084	121	2,497	1,254	1,197

\* Less than \$500

\* Less than one-half of 1 cent

## No. 242.—GOVERNMENTAL-COST PAYMENTS FOR EXPENSES OF THE SEV

NOTE.—For total expenses of general departments and other governmental-cost payments, see Table

City number in order of size	City	Amount of governmental-cost payments (thousands of dollars) for—								
		General government	Protection to person and property	Health and sanitation	Highways	Charities, hospitals, and corrections	Education		Recreation	Miscellaneous
							Schools	Libraries		
1	New York, N. Y. ....	34,845	65,302	36,670	24,484	21,239	111,233	2,659	6,881	24,285
2	Chicago, Ill. ....	15,357	26,415	19,910	11,124	6,372	43,820	1,520	8,674	7,570
3	Philadelphia, Pa. ....	8,688	16,195	8,576	5,079	6,847	27,794	628	2,734	6,279
4	Detroit, Mich. ....	4,836	13,387	7,289	9,208	5,796	19,568	970	2,501	2,693
5	Cleveland, Ohio. ....	3,724	6,561	4,687	5,009	1,868	15,870	1,336	687	1,946
6	St. Louis, Mo. ....	2,831	8,780	2,200	2,655	2,742	9,913	453	1,584	405
7	Baltimore, Md. ....	1,865	6,673	3,142	3,233	1,725	8,011	342	990	1,341
8	Boston, Mass. ....	3,908	9,866	5,632	3,903	4,906	15,218	970	2,690	2,722
9	Los Angeles, Calif. ....	6,271	12,151	3,309	5,905	4,586	22,965	981	1,652	1,061
10	Pittsburgh, Pa. ....	3,921	5,544	3,468	4,196	2,252	10,648	529	807	1,676
11	San Francisco, Calif. ....	2,614	7,065	1,287	1,294	2,888	7,362	223	1,375	1,519
12	Buffalo, N. Y. ....	2,391	5,426	3,348	3,266	3,160	10,149	322	1,611	2,069
13	Washington, D. C. ....	1,349	5,663	2,305	2,773	3,062	8,140	236	1,323	967
14	Milwaukee, Wis. ....	2,084	4,309	3,244	2,558	2,135	7,730	311	1,594	1,277

## VIVIDUAL CITIES OF 100,000 OR MORE INHABITANTS, 1927—Continued

Per capita revenue receipts (dollars) from—								City	City number in order of size
Taxes			Special assessments and charges for outlays	Earnings of—		Highway privileges, rents, and interest	All other		
General property	License	Other		General departments	Public-service enterprises				
30 13	2.03	-----	1 55	1 33	7 01	0 86	2 46	Memphis, Tenn.	45
34 27	1.69	0 54	4 81	.55	3 57	1 34	.76	Bridgeport, Conn.	46
36.20	.56	13 01	1 98	1 50	7 31	1 37	1 55	Youngstown, Ohio.	47
22 70	.14	-----	-----	.89	4 84	.98	2 96	Hartford, Conn.	48
10 28	.33	-----	5 07	2 37	5 29	1 07	5 06	Fort Worth, Tex.	49
53 56	31	9 89	1 92	1 95	4 17	.41	1.51	Grand Rapids, Mich.	50
39 34	.35	-----	5 84	.90	5 55	.77	1.12	Springfield, Mass.	51
27.60	1 23	-----	6 45	.09	5 47	1 24	2 81	Des Moines, Iowa.	52
31 35	.56	.91	1 87	1 01	.01	1 02	3 16	Tulsa, Okla.	53
36 58	2 59	.43	2 07	1 45	-----	2 75	4 46	Saranton, Pa.	54
24 09	.41	-----	1 55	.84	4 44	1 43	5 02	Paterson, N. J.	55
36 35	.27	-----	5 47	3 37	6 81	1 72	3 45	Jacksonville, Fla.	56
34 38	.86	.49	1 81	1 68	4 51	2 55	3 91	Nashville, Tenn.	57
28 38	1 02	-----	3 11	1 27	3 61	.56	6 79	Elmt, Mich.	58
25 65	2 93	.42	4 71	.74	4 93	2 95	3 52	Trenton, N. J.	59
40 74	.18	11 33	.17	1 12	3 20	.85	1 60	Salt Lake City, Utah.	60
45 06	2 85	.15	4 23	2 47	3 58	.76	2 96	Camden, N. J.	61
18 00	.83	(?)	1 20	23	4 32	.58	7 43	Fall River, Mass.	62
40 56	.57	8 76	.13	2 26	4 73	1 41	.86	Miami, Fla.	63
44 75	.26	13.18	1 32	1 76	3 95	.69	1 77	Wilmington, Del.	64
44.09	1 41	3 41	5 51	35	5 97	.63	4 32	Erie, Pa.	65
61 69	.99	3 41	2 17	50	6 27	1 08	6 90	Cambridge, Mass.	66
33 10	.97	-----	6 30	24	20 50	1 24	29	New Bedford, Mass.	67
45 99	1 12	-----	30 00	1.66	11.71	2 06	10 74	Albany, N. Y.	68
38 80	.50	.13	7 61	.38	11 79	1 16	2 93	Yonkers, N. Y.	69
27.65	.50	.69	84	.78	6 48	.98	2 30	Kansas City, Kans.	70
33 67	2 11	.26	3 74	1.40	3 71	2 03	2 15	San Diego, Calif.	71
36 37	.19	9 28	.54	1 05	3 57	.16	1 58	Duluth, Minn.	72
24 67	.13	-----	.03	.71	3 97	1 07	3 46	Reading, Pa.	73
25 83	.25	-----	1 55	1 96	5 40	1 09	9 36	Canton, Ohio.	74
24 32	.40	-----	7 67	1 59	27 49	1 84	8 76	Elizabeth, N. J.	75
32 33	.32	6 54	.53	1 68	5 12	.75	1.01	Oklahoma City, Okla.	76
33 19	2 76	.03	5 90	2 12	6 29	1 14	3 55	Lowell, Mass.	77
34 29	1 03	2 43	7 80	.33	.12	.55	4 90	El Paso, Tex.	78
31 61	.40	.46	17 69	.42	11 30	.41	1 81	Spokane, Wash.	79
28 18	.21	5 15	.84	1 07	3 14	.19	.93	Tacoma, Wash.	80
23 51	.89	.02	1 60	1 21	5 95	.90	3 81	Waterbury, Conn.	81
46.45	2 52	-----	20 64	1 20	24 72	12.41	11 85	Lynn, Mass.	82
								Tampa, Fla.	83
								Utica, N. Y.	84
								Fort Wayne, Ind.	85
								Somerville, Mass.	86
								Knoxville, Tenn.	87
								Long Beach, Calif.	88

Source Bureau of the Census, Department of Commerce

## ERAL DEPARTMENTS OF CITIES OF 100,000 OR MORE INHABITANTS, 1927

240. Per capita figures not computed for certain cities owing to absence of accurate population figures

Per capita governmental-cost payments (dollars) for—									City	City number in order of size
General government	Protection to person and property	Health and sanitation	Highways	Charities, hospitals, and corrections	Education		Recreation	Miscellaneous		
					Schools	Libraries				
5.84	10.94	6 14	4 10	3.56	18 63	0 45	1 15	4 07	New York, N. Y.	1
4 95	8 51	6 42	3 58	2 05	14 12	.49	2 80	2 44	Chicago, Ill.	2
4 27	7 95	4 21	2 49	3 36	13 65	.31	1 34	3 08	Philadelphia, Pa.	3
3 69	10.20	5 56	7 02	4 42	14 91	.74	1 91	2 05	Detroit, Mich.	4
3 78	6 67	4 76	5 08	1.90	16 12	1 36	1 70	1 98	Cleveland, Ohio.	5
3.52	10 54	2 65	3 19	3.29	11 91	.54	1 90	1 49	St. Louis, Mo.	6
2.28	8 15	3 84	3 95	2.11	9 78	.42	1 21	1 64	Baltimore, Md.	7
4.93	12 44	7 10	4 92	6 19	19 19	1 22	3 39	3 43	Boston, Mass.	8
5.89	8 33	5 21	6 30	3.38	16 00	.79	1 21	2 52	Los Angeles, Calif.	9
4 57	12 37	2 26	2 26	5 05	12 89	.39	2 41	2 66	Pittsburgh, Pa.	10
4 37	9 92	6 12	5 96	5 78	18 55	.59	2 94	3 78	San Francisco, Calif.	11
2.53	10.60	4.32	5 19	5 73	15 24	.44	2 48	1.81	Buffalo, N. Y.	12
3.93	8 12	6 11	4 81	4 02	14 55	.59	3 00	2.40	Washington, D. C.	13
									Milwaukee, Wis.	14

## No. 242.—GOVERNMENTAL-COST PAYMENTS FOR EXPENSES OF THE SEVERAL

City number in order of size	City	Amount of governmental-cost payments (thousands of dollars) for—								
		General government	Protection to person and property	Health and sanitation	Highways	Charities, hospitals, and corrections	Education		Recreation	Miscellaneous
							Schools	Libraries		
15	Newark, N. J.	2,324	6,078	3,487	1,285	2,867	8,694	322	742	841
16	Minneapolis, Minn.	1,401	2,722	1,705	1,918	940	7,275	439	1,793	829
17	New Orleans, La.	1,369	3,006	1,493	1,132	533	3,844	73	339	273
18	Cincinnati, Ohio	2,054	2,721	1,333	2,338	1,430	7,742	273	327	1,389
19	Kansas City, Mo.	2,082	2,441	948	2,383	1,704	5,779	229	442	190
20	Seattle, Wash.	1,719	3,344	1,453	1,572	582	5,028	280	383	460
21	Indianapolis, Ind.	1,232	2,877	1,125	935	862	5,002	311	608	409
22	Rochester, N. Y.	1,518	2,926	2,437	1,534	948	6,700	209	740	1,203
23	Jersey City, N. J.	2,130	4,860	1,725	1,167	2,096	4,709	216	550	845
24	Louisville, Ky.	663	1,714	960	1,065	787	3,143	157	227	244
25	Toledo, Ohio	1,231	2,413	679	2,154	661	4,272	216	181	481
26	Akron, Ohio	327	816	470	808	114	2,954	48	22	298
27	Columbus, Ohio	428	1,676	849	622	69	3,936	65	126	425
28	Portland, Oreg.	422	2,466	607	666	54	4,463	-----	377	243
29	Denver, Colo.	1,127	2,173	718	1,108	726	4,559	239	746	498
30	Providence, R. I.	513	2,543	1,007	1,065	295	3,602	43	220	360
31	Oakland, Calif.	567	2,311	636	729	19	4,870	156	417	110
32	St. Paul, Minn.	511	1,849	459	726	348	3,250	219	347	278
33	Atlanta, Ga.	319	1,621	776	472	637	3,523	110	195	163
34	Omaha, Nebr.	394	1,668	324	388	21	3,113	89	171	235
35	Birmingham, Ala.	270	1,258	417	420	77	2,244	108	143	70
36	San Antonio, Tex.	230	978	469	630	85	1,808	33	186	75
37	Dallas, Tex.	306	1,228	603	633	293	2,377	29	250	72
38	Syracuse, N. Y.	531	1,637	896	1,262	597	2,912	112	214	546
39	Houston, Tex.	350	1,170	769	594	233	2,696	57	217	120
40	Worcester, Mass.	380	1,913	844	979	1,088	3,488	158	201	337
41	Richmond, Va.	524	1,210	564	518	256	2,040	56	130	135
42	New Haven, Conn.	380	1,623	424	460	268	2,764	91	261	230
43	Dayton, Ohio	343	918	423	493	266	2,429	167	162	205
44	Norfolk, Va.	342	1,273	450	214	175	1,402	34	78	126
45	Memphis, Tenn.	247	1,162	684	476	462	1,688	70	352	41
46	Bridgeport, Conn.	454	1,648	577	369	328	2,032	121	190	231
47	Youngstown, Ohio	254	613	218	518	83	2,254	102	175	126
48	Hartford, Conn.	415	1,583	803	534	262	2,977	59	359	195
49	Fort Worth, Tex.	239	801	295	234	120	1,537	25	191	18
50	Grand Rapids, Mich.	310	1,078	517	228	114	3,019	140	202	70
51	Springfield, Mass.	387	1,495	816	813	246	3,160	183	341	220
52	Des Moines, Iowa	224	839	324	456	8	2,664	105	126	99
53	Tulsa, Okla.	153	522	162	137	7	1,870	43	100	19
54	Scranton, Pa.	244	898	406	457		2,065	32	138	227
55	Paterson, N. J.	206	1,324	715	235	168	2,632	84	145	242
56	Jacksonville, Fla.	227	919	507	529	78	1,074	44	212	127
57	Nashville, Tenn.	213	776	312	295	251	925	37	133	61
58	Flint, Mich.	178	707	428	241	340	1,726	52	171	33
59	Trenton, N. J.	240	1,153	597	483	118	2,255	87	155	144
60	Salt Lake City, Utah	249	500	236	365	45	2,145	64	191	47
61	Camden, N. J.	266	1,036	398	348	91	1,801	41	118	225
62	Fall River, Mass.	243	995	519	571	575	2,095	78	127	200
63	Miami, Fla.	297	1,422	960	701	1,007	2,042	30	146	572
64	Wilmington, Del.	210	677	302	219	7	1,234	46	102	70
65	Erie, Pa.	207	548	221	285	1	1,580	43	26	105
66	Cambridge, Mass.	277	980	776	541	372	1,620	76	260	326
67	New Bedford, Mass.	263	1,135	650	401	364	1,910	78	134	217
68	Albany, N. Y.	330	1,049	637	449	318	1,433	85	219	236
69	Yonkers, N. Y.	424	1,231	954	453	428	2,808	41	163	363
70	Kansas City, Kans.	145	607	139	196	28	1,601	28	58	39
71	San Diego, Calif.	354	767	407	448	20	2,079	92	305	80
72	Duluth, Minn.	266	703	178	313	33	1,888	66	141	123
73	Reading, Pa.	178	426	308	420	(1)	1,399	42	111	124
74	Canton, Ohio	191	400	221	452	33	1,423	16	28	101
75	Elizabeth, N. J.	180	894	342	269	83	1,612	49	53	112
76	Oklahoma City, Okla.	155	534	215	175	42	1,753	37	73	29
77	Lowell, Mass.	225	861	400	403	315	1,492	34	60	273
78	El Paso, Tex.	107	409	223	105	58	1,029	27	93	6
79	Spokane, Wash.	153	620	279	268	35	1,788	71	132	70
80	Tacoma, Wash.	217	686	178	333	40	1,493	53	133	48
81	Waterbury, Conn.	268	886	375	575	164	1,705	45	106	140
82	Lynn, Mass.	163	745	375	358	163	1,368	74	155	222
83	Tampa, Fla.	204	740	546	330	213	988	62	261	114
84	Utica, N. Y.	232	709	414	234	195	1,424	82	103	193
85	Fort Wayne, Ind.	74	609	161	174	-----	1,491	98	87	76
86	Somerville, Mass.	149	623	394	249	122	1,199	68	119	197
87	Knoxville, Tenn.	223	479	213	300	229	870	40	11	129
88	Long Beach, Calif.	358	846	426	419	38	2,455	108	290	101

<sup>1</sup> Less than \$500.<sup>2</sup> Less than one-half of 1 cent.

## DEPARTMENTS OF CITIES OF 100,000 OR MORE INHABITANTS, 1927—Continued

Per capita governmental-cost payments (dollars) for—									City	City number in order of size
General government	Protection to person and property	Health and sanitation	Highways	Charities, hospitals, and corrections.	Education		Recreation	Miscellaneous		
					Schools	Libraries				
4 98	13 02	7 47	2 76	6 14	18 63	0 69	1 50	1 80	Newark, N. J.	15
3 13	6 08	3 81	4 29	2 10	16 25	.98	1 77	1 85	Minneapolis, Minn.	16
3 23	7 09	3 51	2 67	1 26	9 66	.17	.80	1 64	New Orleans, La.	17
4 98	6 60	3 23	5 67	3 47	18 78	.66	.79	3 37	Cincinnati, Ohio	18
5 51	6 47	2 51	6 31	4 51	15 31	.61	1 17	.50	Kansas City, Mo.	19
3 29	7 69	3 01	2 49	2 30	13 37	.83	1 62	1 09	Seattle, Wash.	20
4 68	9 02	7 51	4 72	2 92	20 65	.64	2 28	3 71	Indianapolis, Ind.	21
6 63	15 12	5 36	3 63	6 52	14 65	.67	1 65	2 63	Rochester, N. Y.	22
2 09	5 40	3 02	3 36	2 42	9 91	.49	.72	.77	Jersey City, N. J.	23
4 03	7 91	2 00	7 05	2 17	13 99	.71	.59	1 58	Louisville, Ky.	24
1 47	5 75	2 91	2 13	.24	13 51	.22	.43	1 46	Toledo, Ohio	25
3 89	7 50	2 47	3 82	2 50	15 73	.82	2 57	1 72	Akron, Ohio	26
1 84	9 11	3 61	3 82	1 06	12 91	.15	.79	1 29	Columbus, Ohio	27
2 15	8 76	2 41	2 77	.07	18 45	.59	1 38	.42	Portland, Oreg.	28
2 04	7 40	1 84	2 90	1 39	12 99	.87	1 39	1 11	Denver, Colo.	29
1 28	6 51	3 12	1 90	2 56	14 15	.44	.79	.66	Providence, R. I.	30
1 80	7 61	1 48	1 77	.09	14 20	.41	.78	1 07	Oakland, Calif.	31
1 26	5 88	1 95	1 96	.36	10 48	.61	.67	.33	St. Paul, Minn.	32
1 11	4 71	2 26	3 04	.41	8 72	.16	.90	.36	Atlanta, Ga.	33
1 49	6 00	2 94	3 09	1 43	11 60	.14	1 22	.35	Omaha, Nebr.	34
2 69	8 31	4 55	6 41	3 03	14 78	.57	1 09	2 77	Birmingham, Ala.	35
1 94	9 79	4 32	5 02	5 57	17 86	.81	1 03	1 73	San Antonio, Tex.	36
2 73	6 30	2 94	2 69	1 34	10 62	.90	.68	.70	Dallas, Tex.	37
2 06	8 78	2 30	2 49	1 45	14 95	.49	1 41	1 24	Syracuse, N. Y.	38
1 90	5 08	2 34	2 73	1 47	13 44	.62	.90	1 14	Houston, Tex.	39
1 91	7 10	2 51	1 20	.98	7 82	.19	.44	.70	Worcester, Mass.	40
1 38	6 49	3 83	2 67	2 38	9 44	.39	1 97	.23	Richmond, Va.	41
1 50	3 63	1 23	3 06	.49	13 31	.60	1 03	.74	New Haven, Conn.	42
2 51	9 58	4 36	3 23	1 58	18 02	.36	2 17	1 18	Dayton, Ohio	43
1 47	4 93	1 81	1 44	.74	9 46	.15	1 18	.11	Norfolk, Va.	44
1 97	6 86	3 30	1 45	.73	19 24	.89	1 29	.45	Memphis, Tenn.	45
2 63	10 15	5 54	5 52	1 67	21 47	1 24	2 31	1 50	Bridgeport, Conn.	46
1 53	5 72	2 21	3 12	.05	18 16	.71	.86	.67	Youngstown, Ohio	47
1 05	3 58	1 12	.94	.05	12 83	.29	.69	.13	Hartford, Conn.	48
1 69	6 24	2 82	3 17		14 35	.22	.96	1 58	Fort Worth, Tex.	49
1 43	9 21	4 97	1 64	1 16	18 30	.58	1 01	1 68	Grand Rapids, Mich.	50
1 54	5 63	2 26	2 15	1 82	6 72	.27	.97	.44	Springfield, Mass.	51
1 29	5 14	3 11	1 76	2 47	12 55	.38	1 24	.24	Des Moines, Iowa	52
1 76	8 43	4 37	3 53	.86	16 50	.63	1 13	1 05	Tulsa, Okla.	53
1 84	3 69	1 74	2 68	.33	15 81	.47	1 41	.35	Scranton, Pa.	54
2 00	7 79	2 99	2 62	.68	13 53	.81	.89	1 69	Paterson, N. J.	55
1 84	7 50	3 92	4 30	4 33	15 80	.59	.96	1 51	Jacksonville, Fla.	56
2 25	10 80	7 29	5 32	7 65	15 50	.23	1 11	4 35	Nashville, Tenn.	57
1 68	5 41	2 41	1 74	.06	9 85	.87	.82	.55	Flint, Mich.	58
2 26	8 00	6 33	4 42	3 04	13 22	.82	2 12	2 66	Trenton, N. J.	59
2 20	9 49	5 44	3 35	3 05	15 97	.66	1 12	1 81	Salt Lake City, Utah	60
2 76	8 78	5 33	3 76	2 66	11 99	.71	1 83	1 98	Camden, N. J.	61
3 56	10 36	8 04	3 81	3 61	23 64	.34	1 37	3 05	Fall River, Mass.	62
1 23	5 16	1 18	1 67	.24	13 62	.23	.50	.33	Miami, Fla.	63
3 07	6 65	3 53	3 89	.17	18 03	.79	2 65	.69	Wilmington, Del.	64
2 32	6 13	1 55	2 73	.29	16 46	.58	1 23	1 07	Erie, Pa.	65
1 56	3 73	2 68	3 67	(2)	12 21	.37	.97	1 08	Cambridge, Mass.	66
1 69	3 53	1 96	3 99	.29	12 56	.15	.25	.89	New Bedford, Mass.	67
2 04	7 81	3 63	3 65	2 86	13 53	.31	.54	2 48	Albany, N. Y.	68
.97	3 72	2 02	.96	.52	9 35	.25	.84	.05	Yonkers, N. Y.	69
1 40	5 68	2 56	2 74	.33	16 49	.65	1 21	.64	Kansas City, Kans.	70
2 02	6 40	1 66	3 11	.37	13 93	.50	1 24	.45	San Diego, Calif.	71
1 56	7 10	3 57	3 41	1 56	13 05	.70	1 48	2 12	Duluth, Minn.	72
1 95	7 08	5 22	3 17	2 04	9 45	.59	2 50	1 09	Reading, Pa.	73
2 25	6 85	4 01	2 27	1 88	13 77	.79	.99	1 86	Canton, Ohio	74
.71	5 90	1 56	1 69		14 46	.85	.85	.74	Elizabeth, N. J.	75
1 46	6 12	3 88	2 46	1 21	11 81	.67	1 17	1 94	Oklahoma City, Okla.	76
2 21	4 72	2 10	2 97	2 27	8 60	.39	.11	1 27	Lowell, Mass.	77
3 55	8 38	4 22	4 14	.37	24 30	1 07	2 87	1 00	El Paso, Tex.	78
									Spokane, Wash.	79
									Tacoma, Wash.	80
									Waterbury, Conn.	81
									Lynn, Mass.	82
									Tampa, Fla.	83
									Utica, N. Y.	84
									Fort Wayne, Ind.	85
									Somerville, Mass.	86
									Knoxville, Tenn.	87
									Long Beach, Calif.	88

## No. 243.—NET DEBT OF CITIES OF 100,000 OR MORE INHABITANTS

City number in order of size	City	Amount (thousands of dollars)				Per capita (dollars)			
		1915	1922	1926	1927	1915	1922	1926	1927
1	New York, N. Y.	921,754	1,067,021	1,326,051	1,394,476	172.82	182.72	223.84	233.55
2	Chicago, Ill.	65,911	131,341	204,429	241,700	27.49	46.35	67.07	77.90
3	Philadelphia, Pa.	101,864	195,846	357,721	381,583	61.44	103.38	178.15	187.43
4	Detroit, Mich.	18,377	122,587	206,246	214,224	33.65	123.37	162.65	163.24
5	Cleveland, Ohio	57,074	116,089	156,871	134,273	89.26	135.85	142.57	136.39
6	St. Louis, Mo.	29,919	14,183	24,956	34,388	29.72	17.99	30.29	41.30
7	Baltimore, Md.	59,614	79,911	117,042	125,342	102.86	104.84	144.63	153.04
8	Boston, Mass.	85,006	84,678	98,558	100,626	113.10	110.76	125.23	126.88
9	Los Angeles, Calif.	42,673	68,826	187,692	203,403	94.38	110.59	(1)	(1)
10	Pittsburgh, Pa.	51,932	74,849	101,842	116,470	91.93	123.13	159.88	175.01
11	San Francisco, Calif.	42,636	71,058	80,702	81,714	94.27	135.30	143.60	143.01
12	Buffalo, N. Y.	32,748	44,014	72,597	78,185	71.54	84.01	134.19	142.91
13	Washington, D. C.	6,223	156			17.48	36		
14	Milwaukee, Wis.	14,381	31,994	39,753	50,819	34.27	66.97	76.89	95.66
15	Newark, N. J.	36,961	48,998	70,498	83,252	94.99	113.48	153.59	178.39
16	Minneapolis, Minn.	19,007	37,204	49,926	52,921	55.34	92.78	115.04	118.21
17	New Orleans, La.	42,846	40,416	44,505	49,206	118.61	100.79	106.22	115.94
18	Cincinnati, Ohio	59,839	81,470	82,500	82,094	148.79	201.23	200.73	199.16
19	Kansas City, Mo.	9,768	15,542	36,806	43,430	34.32	45.88	99.47	115.02
20	Seattle, Wash.	31,029	58,435	72,023	74,714	99.12	185.11	(1)	(1)
21	Indianapolis, Ind.	4,850	24,456	31,434	31,303	18.67	73.00	85.65	83.63
22	Rochester, N. Y.	11,570	24,180	38,148	42,094	47.21	77.61	118.84	129.72
23	Jersey City, N. J.	19,521	36,387	76,891	66,547	66.53	118.94	241.80	206.99
24	Louisville, Ky.	11,865	12,378	19,218	21,171	50.60	52.31	62.40	66.77
25	Toledo, Ohio	10,000	26,600	30,001	32,966	54.31	102.37	101.70	107.94
26	Akron, Ohio	6,859	23,383	35,298	37,759	85.43	111.97	(1)	(1)
27	Columbus, Ohio	10,044	21,848	25,697	27,220	49.10	85.51	90.17	98.41
28	Portland, Oreg.	16,022	25,485	40,759	43,967	61.72	95.16	(1)	(1)
29	Denver, Colo.	908	16,495	32,190	32,087	3.70	61.64	112.95	110.72
30	Providence, R. I.	13,523	13,786	24,183	27,005	55.46	57.28	88.58	96.76
31	Oakland, Calif.	9,927	11,768	18,879	26,751	53.11	51.19	73.46	101.37
32	St. Paul, Minn.	10,560	13,014	27,402	27,343	44.60	54.26	110.49	109.33
33	Atlanta, Ga.	4,920	7,054	8,822	12,199	27.44	32.32	(1)	48.99
34	Omaha, Nebr.	15,201	29,993	33,599	33,231	114.73	149.41	155.55	151.60
35	Birmingham, Ala.	5,839	9,345	14,295	15,217	35.57	49.24	68.40	71.04
36	San Antonio, Tex.	5,634	8,035	20,700	23,385	48.20	46.13	102.99	112.70
37	Dallas, Tex.	5,947	11,728	20,510	21,119	52.38	69.67	103.69	108.12
38	Syracuse, N. Y.	8,976	13,875	21,578	24,248	80.10	76.66	116.64	123.09
39	Houston, Tex.	9,858	15,459	29,783	35,744	94.13	103.00	(1)	(1)
40	Worcester, Mass.	7,539	6,175	8,447	8,503	47.86	32.82	43.77	43.54
41	Richmond, Va.	11,170	16,465	25,553	26,623	82.70	92.20	135.20	138.66
42	New Haven, Conn.	4,236	9,345	10,611	10,360	29.31	54.98	58.30	56.03
43	Dayton, Ohio	6,009	10,480	16,497	18,955	48.54	64.76	93.20	104.90
44	Norfolk, Va.	8,234	24,268	33,267	32,969	94.31	194.28	191.19	183.98
45	Memphis, Tenn.	12,289	19,453	24,976	25,462	85.80	115.89	141.11	142.32
46	Bridgeport, Conn.	2,621	10,492	14,180	13,376	22.58	69.47	(1)	(1)
47	Youngstown, Ohio	3,950	11,171	10,347	9,641	39.27	84.40	62.71	56.91
48	Hartford, Conn.	8,806	13,408	15,757	16,076	81.90	92.42	97.87	97.31
49	Fort Worth, Tex.	5,447	9,235	15,977	19,803	57.64	81.68	101.12	121.87
50	Grand Rapids, Mich.	3,786	5,706	12,045	12,830	30.56	40.24	78.22	81.77
51	Springfield, Mass.	7,549	9,950	14,411	14,860	75.88	71.23	99.39	100.95
52	Des Moines, Iowa	3,355	13,930	17,434	18,310	34.48	104.19	121.07	124.81
53	Tulsa, Okla.	(2)	6,258	14,062	14,852	(2)	70.25	106.53	101.86
54	Scranton, Pa.	2,537	2,914	4,416	7,375	17.95	20.84	30.88	51.25
55	Paterson, N. J.	4,739	7,940	14,344	17,076	35.02	57.32	100.31	118.75
56	Jacksonville, Fla.	3,848	7,453	12,720	14,839	54.83	76.35	(1)	(1)
57	Nashville, Tenn.	6,038	9,557	11,773	14,831	52.65	79.42	85.94	107.62
58	Flint, Mich.	1,581	10,120	15,847	18,076	31.84	94.89	120.65	131.46
59	Trenton, N. J.	2,714	3,970	11,790	12,778	25.31	31.74	87.98	93.48
60	Salt Lake City, Utah	6,223	9,794	9,106	9,034	56.71	79.03	68.47	66.57
61	Camden, N. J.	4,379	6,946	9,407	11,113	42.73	56.98	71.81	83.49
62	Fall River, Mass.	5,049	7,106	10,203	9,893	40.25	58.83	77.89	74.60
63	Miami, Fla.	(2)	5,575	14,180	26,539	(2)	162.41	111.66	201.51
64	Wilmington, Del.	5,186	9,278	10,489	10,655	56.00	81.04	85.29	84.24
65	Erie, Pa.	1,034	6,467	7,819	8,085	14.29	59.04	(1)	(1)
66	Cambridge, Mass.	7,198	5,959	5,996	6,240	65.03	53.89	49.55	50.94
67	New Bedford, Mass.	8,030	12,167	12,585	12,283	72.88	95.55	105.28	102.76
68	Albany, N. Y.	5,783	6,358	14,400	16,402	56.17	54.70	121.01	137.25
69	Yonkers, N. Y.	8,631	12,444	19,370	20,155	92.42	118.04	166.98	169.65
70	Kansas City, Kans.	7,555	8,999	13,880	12,870	58.94	79.08	118.63	109.53

<sup>1</sup> Per capita not computed.<sup>2</sup> Not reported in 1915.

**No. 243.—NET DEBT OF CITIES OF 100,000 OR MORE INHABITANTS—Continued**

City number in order of size	City	Amount (thou and of dollars)				Per capita (dollars)			
		1915	1922	1926	1927	1915	1922	1926	1927
71	San Diego, Calif.....	10,868	12,011	15,210	16,166	222 26	143.80	138 27	140 21
72	Duluth, Minn.....	8,695	8,309	10,752	12,342	76 94	79 76	95 15	107 61
73	Reading, Pa.....	2,115	3,698	2,981	9,514	20 46	33 61	78 78	85 71
74	Canton, Ohio.....	2,647	11,053	12,557	12,191	46 69	115 45	114 15	107 40
75	Elizabeth, N. J.....	3,217	3,105	4,484	4,873	38 53	30.55	(1)	(1)
76	Oklahoma City, Okla.....	4,827	8,811	12,155	11,718	56 22	90.85	(1)	(1)
77	Lowell, Mass.....	2,675	6,149	5,427	5,190	21 09	53 74	49 20	47.06
78	El Paso, Tex.....	2,958	6,240	6,745	6,515	59 02	74.18	63 63	59 23
79	Spokane, Wash.....	7,764	6,318	4,492	5,152	57 23	60.42	41.21	47.09
80	Tacoma, Wash.....	9,937	7,168	11,946	11,028	96.08	71.42	112 69	102.87
81	Waterbury, Conn.....	4,399	9,572	13,751	14,794	53.32	99 20	(1)	(1)
82	Lynn, Mass.....	4,328	3,265	5,795	6,221	44 07	32 11	55 72	59 36
83	Tampa, Fla.....	2,883	2,465	11,474	15,034	57 50	45 60	110 02	143.87
84	Utica, N. Y.....	2,114	4,429	7,766	8,276	25 77	43 59	75 40	80.05
85	Fort Wayne, Ind.....	957	2,972	4,544	4,706	13 63	32.46	45.44	45 65
86	Somerville, Mass.....	1,616	1,459	1,457	2,311	19 26	15.01	14 57	22 75
87	Knoxville, Tenn.....	3,193	8,021	15,651	16,465	81 12	94 68	159 87	162 70
88	Long Beach, Calif.....	(2)	5,166	15,604	16,778	(2)	81 51	165 29	166 12

<sup>1</sup> Per capita not computed<sup>2</sup> Not reported in 1915.

Source: Bureau of the Census, Department of Commerce.

**No. 244.—REVENUE RECEIPTS, GOVERNMENTAL-COST PAYMENTS, AND NET DEBT OF CITIES HAVING 30,000 TO 100,000 INHABITANTS, 1927**

NOTE.—See headnote, Table 226 Cities are arranged in order of their estimated population in 1927

City number in order of size	City	Amount (thousands of dollars)					Per capita (dollars)			
		Total revenue receipts	Operation and maintenance	Interest	Outlays	Net debt	Total revenue receipts	Operation and maintenance	Interest	Net debt
89	Savannah, Ga.....	2,962	2,068	216	1,126	5,216	29 70	20 74	2 47	52 32
90	Allentown, Pa.....	2,957	2,153	225	1,707	5,403	30 49	22 20	2 32	55 76
91	Evansville, Ind.....	3,967	2,563	177	1,251	4,144	41.07	26 53	1 83	42 90
92	Wichita, Kans.....	4,241	2,761	427	1,453	5,428	44.13	28 73	4 45	56 48
93	Lawrence, Mass.....	4,621	3,820	300	120	5,001	49 41	40.85	3.20	53 47
94	Schenectady, N. Y.....	6,019	4,420	402	1,665	7,998	64.58	47 43	4 31	85 82
95	Bayonne, N. J.....	5,999	5,260	717	549	9,388	64 43	56 49	7 71	100 84
96	Wilkes-Barre, Pa.....	3,403	2,564	245	384	3,893	37.43	28 21	2 70	42 83
97	Hamtramck, Mich.....	3,644	2,441	284	830	3,973	40.13	26 91	3 13	43 75
98	Harrisburg, Pa.....	3,816	2,638	368	1,804	9,118	44.53	30.79	4 30	106 39
99	Gary, Ind.....	5,763	2,892	173	3,525	4,407	67 65	33 94	2 03	51 72
100	Manchester, N. H.....	3,278	2,380	250	599	5,229	38 67	28 07	2 95	61 07
101	South Bend, Ind.....	6,690	2,790	261	3,452	5,403	79 46	33 13	3 10	64 17
102	Peoria, Ill.....	2,999	2,125	120	928	1,050	35.25	25 46	1 44	12 57
103	Rockford, Ill.....	3,815	2,327	296	1,924	2,225	47 16	28 76	3 66	27 50
104	Highland Park, Mich.....	5,055	3,567	478	831	6,843	63 74	44 97	6 04	86 29
105	St Joseph, Mo.....	3,388	1,853	166	1,501	3,698	43.21	23 63	2 12	47 18
106	Sioux City, Iowa.....	3,604	2,499	197	862	3,851	46 09	31.96	2 52	49 24
107	Shreveport, La.....	2,996	1,882	392	1,019	8,036	38 41	24.13	5 02	103 03
108	Portland, Me.....	3,962	2,873	465	669	8,886	51 13	37.08	6.00	114 65
109	Little Rock, Ark.....	2,789	1,509	328	1,882	4,018	35 99	19 48	4 23	51 85
110	Charleston, S. C.....	3,454	2,310	577	559	9,247	46.05	30 80	7 69	123 30
111	Sacramento, Calif.....	5,944	3,752	568	2,825	13,576	70 68	50 30	7 62	181 99
112	Lansing, Mich.....	6,441	3,361	378	1,603	5,450	87.05	45 42	5 11	73 77
113	Binghamton, N. Y.....	4,566	3,469	299	1,335	6,843	61.79	46.93	4 03	92 59
114	Saginaw, Mich.....	3,589	2,404	338	1,216	4,095	48 57	32 54	4 56	55 41
115	Winston-Salem, N. C.....	2,778	1,667	756	1,423	10,322	37 70	22 61	10 26	140 05
116	East St Louis, Ill.....	2,519	1,611	237	459	2,865	34 46	22 03	3 52	36 78
117	Johnstown, Pa.....	3,102	2,376	374	1,413	8,331	42 49	32 55	5 13	114 12
118	Chattanooga, Tenn.....	2,836	2,016	493	1,510	9,097	39.00	27 73	6 78	125 13
119	Terre Haute, Ind.....	2,768	2,092	153	742	2,906	38 07	28 77	2 10	39 97
120	Chester, Pa.....	1,975	1,303	227	541	3,747	27 32	18.03	3 14	51 83
121	Troy, N. Y.....	3,780	2,887	325	839	6,664	52 28	39.93	4 50	92 18
122	Pawtucket, R. I.....	3,194	2,179	516	1,489	9,631	44 30	30.22	7 16	133.58



No. 244.—REVENUE RECEIPTS, GOVERNMENTAL-COST PAYMENTS, AND NET DEBT OF CITIES HAVING 30,000 TO 100,000 INHABITANTS, 1927—Continued

City number in order of size	City	Amount (thousands of dollars)					Per capita (dollars)			
		Total revenue receipts	Operation and maintenance	In-interest	Out-lays	Net debt	Total revenue receipts	Operation and maintenance	In-interest	Net debt
123	Springfield, Ohio.....	2,569	1,691	214	711	2,942	35 88	23 62	2 99	41 08
124	Racine, Wis.....	3,089	1,907	182	1,135	4,375	43 33	26 74	2 55	61 36
125	Passaic, N. J.....	3,057	2,636	595	885	8,048	43 18	37 23	8 40	113 67
126	New Britain, Conn.....	3,134	2,311	270	1,352	6,450	44 77	33 02	3 85	92 14
127	Lincoln, Nebr.....	4,032	2,544	326	2,071	5,240	38.10	36.66	4 69	75 50
128	Berkeley, Calif.....	4,046	2,913	205	2,203	5,098	58 98	42 47	2 99	74 31
129	Chicago, Ill.....	2,724	1,786	223	1,609	1,344	39 77	26 08	3 25	19 62
130	Hoboken, N. J.....	5,112	3,748	641	19	9,096	75 00	54 98	9 40	133 43
131	Altoona, Pa.....	2,244	1,503	232	582	3,546	33 10	22 16	3 42	52 30
132	Mobile, Ala.....	2,101	1,531	335	1,033	4,826	31 12	22 68	4 97	71 49
133	Niagara Falls, N. Y.....	4,873	3,040	596	1,563	11,924	73 16	45 65	8 95	179 04
134	Bethlehem, Pa.....	2,496	1,466	363	833	6,490	37 82	22 21	5 49	98 33
135	Huntington, W. Va.....	2,763	1,916	187	768	3,349	41 86	29 03	2 84	50 75
136	Brockton, Mass.....	3,635	2,639	228	627	3,422	55 63	40 39	3 49	52 36
137	Quincy, Mass.....	4,444	2,968	382	1,586	5,180	68 05	45 42	5 55	79 33
138	Springfield, Ill.....	3,626	2,289	186	1,685	2,559	55 95	35 32	2 86	39 49
139	Union City, N. J.....	2,534	2,201	253	1,022	4,373	39 60	34 38	3 96	68 32
140	East Orange, N. J.....	3,781	2,756	480	1,254	5,548	59 73	43 54	7 58	87 64
141	Roanoke, Va.....	2,157	1,530	262	407	6,734	34 12	24 21	4 14	106 55
142	Lakewood, Ohio.....	3,671	2,285	506	1,032	5,629	59.01	36 75	8 13	16.59
143	Wichita Falls, Tex.....	2,062	1,229	506	1,015	8,578	(1)	(1)	(1)	(1)
144	Topeka, Kans.....	3,016	2,037	177	1,933	3,203	48 72	32 75	2 86	51 74
145	Jackson, Mich.....	2,641	1,622	301	1,712	6,019	42 80	26 28	4 89	97 66
146	Fresno, Calif.....	2,632	2,341	179	444	3,664	42 94	38 18	2 92	59 77
147	Portsmouth, Va.....	1,948	1,138	501	325	8,138	32 09	18.75	8 25	134.06
148	Holyoke, Mass.....	4,865	3,669	245	505	4,190	80 55	60 76	4 05	69 38
149	Macon, Ga.....	2,000	1,421	131	320	2,407	33 27	23 65	2 17	40 05
150	Pasadena, Calif.....	8,342	4,733	589	3,816	12,048	140 91	79 94	9 96	208 52
151	Covington, Ky.....	1,847	1,364	168	613	3,283	31 46	23 23	2 87	55 93
152	Lancaster, Pa.....	1,762	1,474	145	581	3,292	30.53	25 55	2 51	57 06
153	Wheeling, W. Va.....	2,866	2,076	235	578	4,065	50 99	36 95	4 18	72 32
154	Augusta, Ga.....	2,361	1,675	165	671	3,256	42 01	29 81	2 93	57 94
155	Newton, Mass.....	4,367	3,423	301	1,376	4,634	32 80	61 13	5 37	82 75
156	Oak Park, Ill.....	3,402	1,922	269	2,210	2,558	61 19	34 57	4 83	46 00
157	Kalamazoo, Mich.....	2,910	1,866	215	770	2,620	52 43	33 62	3 88	47.20
158	Decatur, Ill.....	2,588	1,543	232	1,170	2,196	46 81	27 90	4 20	39 71
159	Charlotte, N. C.....	2,899	1,730	487	1,233	7,343	52 61	31 40	8 83	133 27
160	Kenosha, Wis.....	3,261	1,921	151	1,179	3,294	59 72	35 17	2 76	60 33
161	Atlantic City, N. J.....	7,028	5,894	967	3,424	20,537	129 67	108 74	17 85	378 90
162	Hammond, Ind.....	4,200	2,039	138	2,081	2,038	77 49	37.63	2 55	48.67
163	Pontiac, Mich.....	3,516	1,965	275	1,945	5,059	65 12	36 39	5 09	93 69
164	Davenport, Iowa.....	2,454	1,698	143	395	2,580	45 67	31 60	2 65	48 00
165	Beaumont, Tex.....	1,918	1,335	304	1,275	6,286	35 91	25 00	5 69	117 72
166	Cedar Rapids, Iowa.....	2,285	1,514	153	689	3,061	42 79	28 35	2 87	57 32
167	Mount Vernon, N. Y.....	4,785	3,158	532	2,066	11,477	89.77	59 25	9 99	215.32
168	Malden, Mass.....	2,643	1,986	207	498	2,717	49 97	37 55	3 91	51 36
169	Woonsocket, R. I.....	2,451	1,574	469	1,022	7,327	46 87	30 11	8 96	140 10
170	Newport News, Va.....	1,557	877	341	92	6,039	30 12	16 95	6 60	116 62
171	New Castle, Pa.....	1,789	1,309	135	624	3,308	34 67	25 37	2 61	64 11
172	Charleston, W. Va.....	2,166	1,276	193	637	2,994	41 97	24 74	3 74	58 03
173	Medford, Mass.....	2,809	1,948	205	930	3,904	54 77	37 97	4 01	76 09
174	Springfield, Mo.....	1,628	1,062	33	444	1,473	31 99	20 87	.65	28 93
175	Columbia, S. C.....	1,667	1,097	198	1,027	3,525	31 35	21 93	3 97	70 50
176	McKeesport, Pa.....	2,066	1,583	139	792	2,433	41 40	31 72	2 78	48 76
177	Stockton, Calif.....	2,755	1,901	220	898	4,428	55 32	38 16	4 43	88.92
178	York, Pa.....	1,585	1,133	103	885	1,876	31 95	23 84	2 08	37 82
179	Galveston, Tex.....	2,266	1,437	481	1,585	8,846	45 78	29 04	9 71	178 72
180	Elmira, N. Y.....	2,341	1,859	151	212	3,292	47 29	37 57	3 05	66 50
181	Greensboro, N. C.....	2,430	1,126	554	2,412	8,255	49 19	22 79	11 22	167 11
182	Bay City, Mich.....	2,491	1,762	259	128	3,785	50 53	35 75	5 25	76 77
183	Haverhill, Mass.....	2,584	2,086	102	420	1,646	52 50	42 37	2 08	33 42
184	Perth Amboy, N. J.....	2,490	1,641	405	701	5,721	50 71	33 42	8 25	116 52
185	East Chicago, Ind.....	2,727	1,456	230	1,072	4,265	55 54	30 27	4 69	80 87
186	Pittsfield, Mass.....	2,290	1,623	121	328	2,174	40 63	33 16	2 45	44 29
187	Chelsea, Mass.....	2,501	2,003	243	231	2,708	51 04	40 88	4 96	55.26

1 Not computed.

No. 244.—REVENUE RECEIPTS, GOVERNMENTAL-COST PAYMENTS, AND NET DEBT OF CITIES HAVING 30,000 TO 100,000 INHABITANTS, 1927—Continued

City number in order of size	City	Amount (thousands of dollars)					Per capita (dollars)			
		Total revenue receipts	Operation and maintenance	Interest	Outlay	Net debt	Total revenue receipts	Operation and maintenance	Interest	Net debt
188	Madison, Wis.....	3,548	2,352	304	1,351	5,232	72.71	48.20	6.23	107.21
189	Lima, Ohio.....	2,538	1,189	426	292	5,663	52.11	24.40	8.75	116.29
190	Lexington, Ky.....	1,804	1,162	133	736	1,865	37.50	24.16	2.77	38.78
191	New Rochelle, N. Y.....	4,189	3,410	317	2,072	8,144	88.57	72.10	7.33	172.17
192	St. Petersburg, Fla.....	6,489	3,168	1,048	15,317	14,523	131.12	67.11	22.21	307.70
193	Montgomery, Ala.....	1,500	1,081	290	303	4,194	32.05	23.09	6.20	89.62
194	Aurora, Ill.....	2,045	1,211	171	835	1,102	43.98	26.04	3.25	23.70
195	Evanston, Ill.....	4,498	2,439	313	1,512	3,105	96.93	52.57	6.74	60.93
196	Columbus, Ga.....	1,511	1,095	99	230	2,119	32.98	23.40	2.17	46.27
197	Muncie, Ind.....	1,449	1,017	64	347	1,192	31.64	22.21	1.40	26.03
198	Waco, Tex.....	1,841	1,281	213	364	3,120	40.47	28.15	4.69	68.58
199	Muskegon, Mich.....	2,455	1,487	227	620	3,953	53.95	32.70	4.99	86.87
200	Jamestown, N. Y.....	3,125	2,043	213	1,682	4,673	60.30	45.31	4.73	103.62
201	Brookline, Mass.....	3,730	2,706	180	702	2,090	83.27	60.11	4.02	46.65
202	San Jose, Calif.....	2,733	1,836	118	656	2,301	61.00	40.99	2.63	51.37
203	Fitchburg, Mass.....	2,451	1,841	115	504	2,845	54.83	41.20	3.24	63.66
204	Durham, N. C.....	1,936	1,233	372	2,124	6,881	43.40	27.61	8.34	154.29
205	Chicopee, Mass.....	2,433	1,809	110	473	1,812	55.01	40.92	2.50	41.67
206	Pueblo, Colo.....	2,410	1,420	285	639	3,067	54.65	32.20	6.16	69.55
207	Lorain, Ohio.....	2,053	1,181	286	430	3,392	46.67	26.85	6.51	77.09
208	Battle Creek, Mich.....	1,871	1,236	90	1,024	1,071	42.81	28.28	2.06	24.51
209	Williamsport, Pa.....	1,478	1,085	79	552	1,708	33.91	24.90	1.80	39.17
210	Hamilton, Ohio.....	3,165	1,887	210	717	3,321	73.09	43.57	5.55	76.69
211	Butte, Mont.....	1,311	906	141	181	1,584	30.36	20.99	3.25	36.66
212	Salem, Mass.....	2,343	1,737	114	536	2,306	54.61	40.50	2.66	53.74
213	Everett, Mass.....	2,491	1,918	207	507	1,838	58.07	44.72	4.82	42.84
214	Stamford, Conn.....	2,945	2,013	239	1,675	4,317	68.96	47.15	5.00	101.81
215	Dubuque, Iowa.....	1,591	1,106	118	227	3,038	38.33	26.59	2.83	73.02
216	Joliet, Ill.....	1,721	1,232	153	269	1,605	41.47	29.69	3.68	38.67
217	Rock Island, Ill.....	1,305	782	106	436	1,718	31.67	18.98	2.57	4.31
218	Council Bluffs, Iowa.....	1,833	1,148	107	523	2,050	41.59	27.03	2.60	50.10
219	Portsmouth, Ohio.....	1,781	1,108	300	829	3,901	44.04	27.53	7.40	96.33
220	Taunton, Mass.....	2,337	1,707	167	588	2,524	58.29	42.57	4.16	62.93
221	New Brunswick, N. J.....	1,973	1,544	252	732	4,037	49.50	38.70	6.32	101.18
222	Superior, Wis.....	1,943	1,463	101	405	2,148	48.97	36.61	2.55	54.14
223	Quincy, Ill.....	1,584	942	77	761	311	40.30	23.97	1.95	7.91
224	Kokomo, Ind.....	1,000	676	26	229	497	25.58	17.30	0.65	12.71
225	Austin, Tex.....	2,085	1,490	156	391	2,874	53.75	38.41	4.02	74.07
226	Lynchburg, Va.....	1,723	1,237	227	331	3,763	44.64	32.03	5.89	97.49
227	Ogden, Utah.....	1,722	1,005	244	353	3,502	44.96	26.23	6.35	91.43
228	Wilmington, N. C.....	1,178	879	184	368	3,472	31.00	23.13	4.83	91.36
229	Easton, Pa.....	1,801	1,125	220	1,071	3,994	47.53	29.69	5.81	105.38
230	Danville, Ill.....	1,119	817	126	255	1,071	29.60	21.61	3.34	28.34
231	Hazlet, Pa.....	1,163	909	137	659	2,888	31.03	24.25	3.65	77.00
232	Waterloo, Iowa.....	1,668	1,083	141	337	2,530	45.07	29.25	3.82	68.39
233	Petersburg, Va.....	1,061	752	199	284	3,400	28.82	20.41	5.39	92.39
234	Waltham, Mass.....	2,016	1,603	139	570	2,259	55.38	44.04	3.81	62.05
235	Orange, N. J.....	1,849	1,447	252	194	3,735	51.22	40.09	6.97	103.46
236	Poughkeepsie, N. Y.....	2,009	1,494	175	412	3,113	55.95	41.61	4.89	86.72
237	Amsterdam, N. Y.....	1,728	1,183	110	190	1,886	48.13	32.97	3.05	52.55
238	Norristown, Pa.....	923	676	55	271	1,521	25.79	18.88	1.53	42.50
239	Auburn, N. Y.....	1,524	1,190	62	142	852	42.71	33.36	1.74	23.87
240	Lewiston, Me.....	980	773	63	127	1,397	27.53	21.70	1.77	39.24
241	Green Bay, Wis.....	1,635	1,202	132	328	2,493	46.06	33.85	3.73	70.21
242	Elgin, Ill.....	1,456	886	103	1,148	1,086	41.61	25.29	2.95	29.61
243	Moline, Ill.....	1,221	927	84	363	288	35.29	26.80	2.42	8.32
244	Sheboygan, Wis.....	2,077	1,213	56	654	875	60.21	35.16	1.61	25.35
245	Watertown, N. Y.....	1,719	1,241	158	471	3,308	52.53	37.27	4.73	99.35
246	Oshkosh, Wis.....	1,864	1,273	69	574	1,486	56.16	38.33	2.08	44.78
247	Muskogee, Okla.....	1,368	947	197	28	2,082	41.82	28.06	6.02	63.66
248	Newburgh, N. Y.....	1,422	1,122	87	1,008	2,239	46.79	36.91	2.88	73.64
249	La Crosse, Wis.....	1,677	1,105	102	486	1,436	55.16	39.30	3.35	47.25
250	Colorado Springs, Colo.....	2,703	1,773	261	343	4,891	89.79	58.90	8.68	162.46

Source: Bureau of the Census, Department of Commerce.

# 11. MONEY AND BANKING

## No. 245.—COINAGE OF THE UNITED STATES MINTS: 1793 to 1928

[All figures in thousands of dollars]

Period <sup>1</sup> or calendar year	Total	Gold	Silver	Minor	Calendar year	Total	Gold	Silver	Minor
1793-1800..	2,534	1,014	1,440	79	1898-----	102,145	77,986	23,034	1,125
1801-1810..	6,971	3,250	3,599	151	1899-----	139,243	111,344	26,062	1,837
1811-1820..	9,328	3,166	5,970	191	1900-----	137,649	99,273	36,345	2,031
1821-1830..	18,885	1,903	16,781	151	1901-----	134,694	101,735	30,838	2,120
1831-1840..	46,463	18,777	27,343	342	1902-----	79,661	47,185	30,028	2,448
1841-1850..	111,959	89,215	22,393	380	1903-----	63,810	43,684	19,874	2,251
1851-1855..	237,390	214,142	22,972	276	1904-----	250,782	233,402	15,696	1,684
1856-1860..	155,945	130,264	24,660	1,021	1905-----	58,269	49,638	6,332	2,299
1861-1865..	185,015	175,093	7,146	2,775	1906-----	92,335	78,793	10,651	2,891
1866-1870..	129,901	115,417	5,610	5,873	1907-----	148,128	131,907	13,178	3,042
1871-1875..	201,316	168,074	31,833	1,438	1908-----	145,499	131,630	12,392	1,469
1876-1880..	378,984	241,753	136,396	834	1909-----	98,621	88,777	8,088	1,756
1881-1885..	390,384	243,745	142,657	3,981	1910-----	111,505	104,724	3,744	3,037
1886-1890..	306,322	126,180	175,003	5,139	1911-----	65,791	56,177	6,457	3,157
1891-1895..	328,759	260,169	63,861	4,729	1912-----	27,417	17,499	7,341	2,577
1896-1900..	546,055	411,684	127,018	7,352	1913-----	33,285	25,433	3,184	4,667
1901-1905..	589,215	475,645	102,760	10,801	1914-----	61,750	53,458	6,064	2,208
1906-1910..	590,088	535,840	48,033	12,195	1915-----	30,145	25,968	4,114	2,063
1911-1915..	218,388	176,535	27,180	14,672	1916-----	33,743	18,325	8,881	6,338
1916-1920..	171,721	35,725	99,892	36,304	1917-----	35,540	10	29,412	6,118
1921-1925..	826,838	535,005	281,167	10,666	1918-----	31,446	-----	25,473	5,973
1886-----	61,375	28,946	32,087	343	1919-----	20,778	-----	11,068	9,709
1887-----	60,379	23,972	35,191	1,216	1920-----	50,214	16,990	25,057	8,167
1888-----	65,319	31,381	33,026	912	1921-----	100,783	10,670	89,055	1,155
1889-----	58,194	21,414	35,407	1,283	1922-----	165,077	80,680	84,325	72
1890-----	61,055	20,467	39,203	1,385	1923-----	114,575	45,365	66,283	2,927
1891-----	58,053	29,222	27,519	1,312	1924-----	229,947	206,010	21,627	2,310
1892-----	48,390	34,787	12,641	961	1925-----	216,457	192,880	19,874	4,203
1893-----	66,934	56,997	8,802	1,135	1926-----	102,828	78,541	19,826	4,462
1894-----	89,185	79,546	9,200	438	1927-----	141,147	125,645	11,286	4,216
1895-----	66,197	59,616	5,698	882	1928-----	189,773	177,860	8,749	3,665
1896-----	70,976	47,053	23,090	833	Total-----	5,889,194	4,343,948	1,413,548	131,698
1897-----	96,042	76,028	18,487	1,526					

<sup>1</sup> Figures for periods are totals, not annual averages

## No. 246.—MONEY IN CIRCULATION, BY KINDS

NOTE.—For total circulation for earlier years see Table 248

[All figures in millions and tenths of millions of dollars]

Date	Total	Gold coin	Gold certifi- cates	Silver dollars	Silver certifi- cates	Treas- ury notes of 1890	Sub- sidi- ary sil- ver	Min- or coins	United States notes	Federal reserve notes	Federal re- serve bank notes	National bank notes
June 30 <sup>1</sup>												
1914.....	3,459.4	611.5	1,026.1	70.3	478.6	2.4	160.0	57.4	337.8	-----	-----	715.2
1915.....	3,319.6	587.5	821.9	64.5	463.1	2.2	159.0	58.5	309.8	70.8	-----	782.1
1916.....	3,449.3	624.9	1,030.3	66.2	476.3	2.1	171.2	63.0	328.2	149.2	1.7	716.2
1917.....	4,046.4	666.5	1,082.9	71.8	468.4	2.0	193.7	68.4	311.6	506.8	3.7	690.6
1918.....	4,481.7	537.2	1,511.2	77.2	370.3	1.9	216.5	74.0	291.9	1,698.2	11.0	691.4
1919.....	4,876.6	474.9	327.6	79.0	163.4	1.7	229.3	81.8	274.1	2,450.3	155.0	639.5
1920.....	5,467.6	474.8	259.0	76.7	97.6	1.7	248.9	91.0	278.1	3,064.7	185.4	689.6
1921.....	4,911.0	447.3	200.6	65.9	158.8	1.6	235.3	91.4	259.2	2,599.6	129.9	721.4
1922.....	4,463.2	415.9	173.3	58.0	205.3	1.5	229.3	89.2	292.3	2,138.7	71.9	727.7
1923.....	4,823.3	404.2	386.5	57.3	364.3	1.5	247.3	93.9	302.7	2,234.7	20.0	711.1
1924.....	4,849.3	393.3	801.4	54.0	364.4	1.4	253.0	97.0	297.8	1,843.1	10.1	733.8
1925.....	4,815.2	402.3	1,004.8	54.3	382.8	1.4	262.0	100.3	282.6	1,636.1	6.9	681.7
1926.....	4,885.3	391.7	1,057.4	51.6	377.7	1.4	270.1	104.2	294.9	1,679.4	5.5	651.5
1927.....	4,851.3	385.0	1,007.1	48.7	375.8	1.3	275.6	108.1	292.2	1,702.8	4.6	650.1
1928.....	4,796.6	377.0	1,019.1	46.2	384.6	1.3	278.2	111.1	298.4	1,626.4	4.0	650.2
Dec. 31:												
1927.....	5,003.0	402.1	1,073.7	48.8	400.3	1.3	285.6	111.8	292.9	1,762.8	4.3	619.4
1928.....	4,973.2	395.3	991.0	46.5	410.3	1.3	291.3	115.6	294.2	1,808.1	3.8	615.8

Sources: Table 245, Director of the mint, Treasury Department; Table 246, Annual Report of the Secretary of the Treasury.

## No. 247.—STOCK OF MONEY IN THE UNITED STATES, BY KINDS, JUNE 30

NOTE.—Amounts in thousands of dollars. Figures prior to 1890 have been revised from the best available data, but the older records, especially from 1860 through the early 70's, are not complete and figures for gold and silver those years are only estimates. Figures beginning 1890 have been compiled on the basis of revised figures for June 30 of each year and therefore differ slightly from the monthly circulation statements. In 1927, data were revised to include minor coins beginning 1900 (no satisfactory data available for earlier years) and gold coin and bullion held abroad for Federal reserve banks and to exclude earmarked gold. Gold and silver certificates and Treasury notes of 1890 are not shown, since equivalent amounts held in trust against them are included in gold coin and bullion and silver dollars

June 30— (except as indicated)	Total	Gold coin and bullion <sup>1</sup>	Silver dollars	Subsidi- ary silver	United States notes	Fractional paper currency <sup>2</sup>	Other United States cur- rency	State- bank notes	National- bank notes	Per- centage of gold to total money
1860-----	442, 102	214, 000	-----	21, 000	-----	-----	-----	207, 102	-----	48 41
1865-----	1, 180, 197	189, 000	-----	9, 500	431, 066	25, 006	236, 567	142, 920	146, 138	16 01
1870-----	899, 876	189, 500	-----	10, 000	359, 000	39, 879	2, 507	2, 223	299, 767	21 06
1875-----	926, 702	121, 135	\$ 2, 743	28, 000	375, 772	42, 129	551	964	354, 408	13 09
1876-----	905, 238	130, 057	\$ 3, 997	32, 419	369, 772	34, 447	500	1, 047	332, 898	14 37
1877-----	916, 548	107, 501	\$ 4, 627	45, 838	359, 704	20, 403	456	909	317, 049	18 28
1878-----	984, 225	213, 200	16, 269	65, 779	346, 681	16, 548	428	806	324, 514	21 06
1879-----	1, 033, 041	245, 742	41, 270	70, 250	346, 681	-----	-----	-----	329, 092	23 77
1880-----	1, 185, 550	351, 841	69, 660	72, 862	346, 681	-----	-----	-----	344, 505	29 68
1881-----	1, 349, 592	478, 485	95, 297	74, 087	346, 681	-----	-----	-----	355, 043	35 45
1882-----	1, 409, 398	506, 758	122, 789	74, 429	346, 681	-----	-----	-----	358, 742	35 96
1883-----	1, 472, 494	542, 732	152, 048	74, 960	346, 681	-----	-----	-----	356, 073	36 86
1884-----	1, 487, 250	545, 501	180, 807	75, 262	346, 681	-----	-----	-----	339, 500	36 68
1885-----	1, 537, 434	588, 697	208, 539	74, 940	346, 681	-----	-----	-----	318, 877	38 29
1886-----	1, 561, 408	590, 774	237, 192	75, 001	346, 681	-----	-----	-----	311, 699	37 84
1887-----	1, 633, 413	654, 520	277, 446	75, 548	346, 681	-----	-----	-----	279, 218	40 07
1888-----	1, 691, 441	705, 819	310, 166	76, 406	346, 681	-----	-----	-----	252, 868	41 73
1889-----	1, 658, 672	680, 064	343, 947	76, 602	346, 681	-----	-----	-----	211, 379	41 00
1890-----	1, 685, 123	695, 563	380, 083	76, 825	346, 681	-----	-----	-----	185, 971	41 28
1891-----	1, 677, 794	646, 583	438, 754	77, 849	346, 681	-----	-----	-----	167, 928	38 54
1892-----	1, 752, 219	664, 275	491, 058	77, 521	346, 681	-----	-----	-----	172, 684	37 91
1893-----	1, 738, 808	597, 698	538, 301	77, 415	346, 681	-----	-----	-----	173, 714	34 37
1894-----	1, 805, 079	627, 293	548, 000	76, 250	346, 681	-----	-----	-----	206, 855	34 75
1895-----	1, 819, 360	636, 256	547, 777	76, 954	346, 681	-----	-----	-----	211, 691	34 97
1896-----	1, 799, 975	599, 598	551, 724	75, 972	346, 681	-----	-----	-----	226, 001	33 31
1897-----	1, 906, 770	696, 239	656, 290	75, 818	346, 681	-----	-----	-----	231, 442	36 51
1898-----	2, 073, 574	861, 515	861, 351	76, 128	346, 681	-----	-----	-----	227, 900	41 55
1899-----	2, 190, 094	963, 498	963, 097	74, 867	346, 681	-----	-----	-----	241, 351	43 99
1900-----	2, 336, 220	1, 034, 384	566, 131	82, 864	346, 681	26, 520	-----	-----	309, 640	43 71
1901-----	2, 511, 472	1, 124, 639	568, 183	89, 823	346, 681	28, 404	-----	-----	353, 742	44 78
1902-----	2, 593, 910	1, 192, 595	570, 135	97, 184	346, 681	30, 643	-----	-----	356, 672	45 98
1903-----	2, 717, 646	1, 248, 682	573, 643	102, 035	346, 681	32, 935	-----	-----	413, 671	45 95
1904-----	2, 838, 023	1, 327, 656	572, 870	107, 062	346, 681	34, 519	-----	-----	449, 235	46 78
1905-----	2, 919, 494	1, 387, 656	568, 229	114, 824	346, 681	36, 384	-----	-----	495, 720	46 50
1906-----	3, 109, 380	1, 475, 707	568, 252	118, 226	346, 681	39, 403	-----	-----	561, 112	47 46
1907-----	3, 158, 111	1, 466, 389	568, 250	130, 452	346, 681	42, 550	-----	-----	603, 789	46 43
1908-----	3, 423, 068	1, 618, 138	568, 200	147, 356	346, 681	44, 304	-----	-----	698, 334	47 27
1909-----	3, 451, 521	1, 642, 042	568, 277	159, 409	346, 681	45, 193	-----	-----	689, 920	47 57
1910-----	3, 466, 856	1, 636, 043	568, 278	155, 159	346, 681	47, 264	-----	-----	713, 431	47 19
1911-----	3, 606, 989	1, 753, 197	568, 279	159, 607	346, 681	51, 028	-----	-----	728, 195	48 61
1912-----	3, 701, 965	1, 818, 188	568, 278	170, 588	346, 681	53, 094	-----	-----	745, 135	49 11
1913-----	3, 777, 021	1, 870, 762	568, 273	175, 196	346, 681	56, 951	-----	-----	759, 158	49 53
1914-----	3, 797, 825	1, 890, 657	568, 272	182, 007	346, 681	59, 536	-----	-----	750, 672	49 78
1915-----	4, 050, 783	1, 985, 539	568, 272	188, 430	346, 681	61, 327	84, 261	-----	819, 274	49 02
1916-----	4, 541, 730	2, 444, 668	568, 270	188, 858	346, 681	63, 909	176, 168	9, 000	744, 175	53 83
1917-----	5, 076, 599	3, 218, 067	568, 270	198, 275	346, 681	69, 688	547, 408	12, 790	715, 420	56 69
1918-----	6, 006, 222	3, 162, 798	499, 516	231, 857	346, 681	78, 146	1, 847, 580	15, 444	724, 205	45 80
1919-----	7, 689, 413	3, 113, 306	308, 146	242, 870	346, 681	82, 909	2, 687, 557	187, 667	719, 277	40 49
1920-----	8, 158, 496	2, 865, 482	268, 857	258, 855	346, 681	92, 479	3, 405, 877	201, 226	719, 038	35 12
1921-----	8, 174, 528	3, 274, 730	288, 788	271, 314	346, 681	98, 522	3, 000, 430	150, 772	743, 290	40 06
1922-----	8, 276, 070	3, 784, 652	381, 174	271, 211	346, 681	98, 593	2, 555, 062	80, 495	758, 202	45 73
1923-----	8, 702, 788	4, 049, 554	491, 877	269, 186	346, 681	99, 056	2, 676, 902	22, 083	747, 440	46 53
1924-----	8, 846, 542	4, 488, 391	503, 755	277, 614	346, 681	102, 445	2, 339, 048	10, 596	778, 012	50 74
1925-----	8, 303, 632	4, 364, 632	522, 061	283, 472	346, 681	104, 004	1, 942, 240	7, 176	733, 366	52 56
1926-----	8, 428, 971	4, 447, 397	533, 491	288, 923	346, 681	108, 891	1, 995, 208	5, 713	702, 669	52 76
1927-----	8, 667, 282	4, 587, 298	537, 944	295, 590	346, 681	113, 295	2, 077, 473	4, 854	704, 146	52 93
1928-----	8, 118, 091	4, 109, 163	539, 062	299, 010	346, 681	116, 689	2, 002, 811	4, 155	699, 621	50 02
Dec 31:										
1927-----	8, 619, 445	4, 379, 267	537, 970	300, 736	346, 681	115, 251	2, 234, 097	4, 440	701, 004	50 81
1928-----	8, 431, 069	4, 141, 421	539, 062	304, 399	346, 681	118, 619	2, 277, 354	3, 883	698, 782	49 12

<sup>1</sup> Does not include gold bullion and foreign coin outside of the vaults of the Treasury, Federal reserve banks, and Federal reserve agents

<sup>2</sup> There has been no fractional currency in actual circulation to any extent since 1878.

<sup>3</sup> Silver bullion in Treasury.

Source: Annual Report of the Secretary of the Treasury.

# **No. 248.—MONEY IN CIRCULATION, HELD IN TREASURY AND IN FEDERAL RESERVE SYSTEM, AND TOTAL STOCK, JUNE 30**

NOTE.—All figures except per capita in thousands of dollars. In conformity with revisions in the form of circulation statement in 1922 and 1927, figures for 1915 on have been compiled to include in the holdings of Federal reserve banks and agents, and, hence, in stock of money, gold bullion and foreign coin held by them and gold coin and bullion held abroad for the account of Federal reserve banks, and also to include in the holdings of Federal reserve banks and agents, and, hence, exclude from circulation, all forms of money held by them whether as reserve against Federal reserve notes or otherwise. As to other revisions, see headnote, Table 247. Per capita figures are on basis of population estimates of the Treasury Department.

June 30— (except as indicated)	Stock of money in the United States	Money held in the Treasury					Money outside of the Treasury		
		Total	In trust against gold and silver certifi- cates <sup>1</sup>	Reserve against United States notes <sup>1</sup>	Held for Federal reserve banks and agents	All other money	Held by Federal reserve banks and agents	In circulation	
								Amount	Per capita (dol- lars)
1800	28,000	1,500				1,500		26,500	4.09
1810	58,000	3,000				3,000		55,000	7.60
1820	69,100	2,000				2,000		67,100	6.96
1830	93,100	5,756				5,756		87,344	6.78
1840	159,969	3,664				3,664		156,305	10.91
1850	285,367	6,605				6,605		278,762	12.02
1860	442,102	6,695				6,695		435,407	13.85
1865	1,180,197	96,657				96,657		1,083,541	31.18
1870	899,876	156,994	32,085			124,910		774,966	20.10
1875	925,702	109,461	17,549			91,912		833,789	18.97
1880	1,185,550	225,922	13,753	100,000		112,168		973,382	19.41
1885	1,537,434	473,126	228,261	100,000		144,865		1,292,569	23.02
1886	1,581,408	472,868	164,161	100,000		208,707		1,252,701	21.82
1887	1,633,413	549,217	233,343	100,000		215,874		1,317,539	22.45
1888	1,691,441	641,124	321,854	100,000		219,270		1,372,171	22.88
1889	1,658,672	652,597	374,286	100,000		178,311		1,380,362	22.52
1890	1,685,123	684,259	428,387	100,000		155,872		1,429,251	22.82
1891	1,677,794	648,001	467,648	100,000		80,353		1,497,441	23.45
1892	1,752,219	716,918	566,046	100,000		50,872		1,601,347	24.60
1893	1,738,808	702,428	560,322	96,539		45,887		1,596,701	24.07
1894	1,805,679	672,282	528,012	64,977		79,294		1,660,809	25.07
1895	1,819,360	701,339	483,947	100,000		117,391		1,601,968	23.24
1896	1,799,975	761,441	467,901	100,000		193,540		1,506,435	21.44
1897	1,906,770	744,391	478,604	100,000		165,787		1,640,983	22.92
1898	2,073,574	759,959	524,245	100,000		185,715		1,837,860	25.19
1899	2,190,064	813,376	527,354	100,000		184,022		1,904,072	25.62
1900	2,360,220	969,492	684,503	150,000		134,990		2,081,231	27.28
1901	2,511,472	1,032,479	724,204	150,000		158,274		2,263,198	28.34
1902	2,593,910	1,097,555	782,759	150,000		164,796		2,279,114	28.81
1903	2,717,646	1,168,982	851,068	150,000		167,914		2,399,732	29.82
1904	2,838,023	1,224,813	939,696	150,000		135,117		2,552,906	31.18
1905	2,919,494	1,245,501	949,347	150,000		146,153		2,623,340	31.51
1906	3,109,380	1,330,109	995,419	150,000		184,690		2,774,690	32.77
1907	3,158,111	1,420,507	1,076,259	150,000		194,247		2,813,863	32.69
1908	3,423,068	1,597,132	1,253,219	150,000		193,913		3,079,155	35.19
1909	3,451,521	1,599,621	1,296,926	150,000		152,695		3,148,826	35.41
1910	3,466,856	1,603,186	1,285,014	150,000		168,172		3,148,684	34.84
1911	3,606,989	1,731,084	1,387,149	150,000		193,936		3,263,053	34.72
1912	3,701,965	1,782,320	1,415,576	150,000		216,744		3,335,220	34.87
1913	3,777,021	1,834,112	1,475,783	150,000		208,329		3,418,692	35.12
1914	3,797,825	1,845,570	1,507,179	150,000		188,391		3,459,431	34.93
1915	4,050,783	1,967,665	1,619,429	152,977		195,259	382,965	3,319,582	32.96
1916	4,541,730	2,356,536	2,057,409	152,979		146,147	593,345	3,649,258	35.63
1917	5,676,599	2,859,396	2,063,391	152,979	526,295	116,731	816,365	4,064,229	39.02
1918	6,906,222	2,976,251	1,407,694	152,979	1,205,082	210,496	855,984	4,481,682	42.33
1919	7,688,413	2,907,812	906,673	152,979	1,416,086	432,074	810,636	4,876,638	45.95
1920	8,188,496	2,379,664	704,638	152,979	1,184,276	337,771	1,015,881	5,467,589	51.38
1921	8,174,528	2,921,089	919,643	152,979	1,537,857	310,610	1,262,089	4,910,992	45.44
1922	8,276,070	3,515,583	1,000,578	152,979	2,108,887	253,139	1,297,893	4,463,172	40.67
1923	8,702,788	3,821,864	1,150,168	152,979	2,286,170	233,529	1,207,836	4,823,275	43.35
1924	8,846,542	4,248,438	1,628,139	152,979	2,260,891	206,429	1,376,935	4,849,307	43.03
1925	8,303,632	4,176,381	2,059,799	153,621	1,752,744	210,217	1,371,841	4,815,208	42.20
1926	8,428,971	4,210,358	2,139,770	154,189	1,717,348	199,050	1,473,118	4,885,266	42.29
1927	8,667,282	4,159,056	2,096,205	155,421	1,712,003	195,427	1,753,110	4,851,321	41.48
1928	8,118,091	3,725,650	1,986,761	156,039	1,387,650	195,199	1,582,576	4,796,626	40.52
Dec 31:									
1927	8,619,445	4,011,867	2,090,864	155,421	1,556,510	209,072	1,695,486	5,002,956	42.52
1928	8,431,099	3,713,243	1,888,698	156,039	1,448,961	219,545	1,633,386	4,973,168	41.76

<sup>1</sup> Both of these items include also reserve against Treasury notes of 1890. The first should be deducted from the totals for money held in the Treasury before combining them with total money outside of the Treasury to arrive at the stock of money in the United States.

<sup>2</sup> Includes total stock of silver dollars and subsidiary silver.

Source: Annual Report of the Secretary of the Treasury.

## No. 249.—FEDERAL RESERVE BANKS: PRINCIPAL ITEMS OF ASSETS

[All figures in thousands of dollars]

Bank and date	Total assets	Reserves		Total (including minor items not shown)	Bills and securities			
		Total	Gold		Bills discounted		Bills bought in open market	United States securities
					Total	Secured by U S Govt obligations		
<b>All banks:</b>								
Dec 30, 1915.....	666,650	555,938	542,413	83,398	32,368		23,013	15,797
Dec 30, 1920.....	6,269,517	2,249,163	2,059,333	3,263,027	2,719,134	1,141,036	255,702	288,191
Dec 28, 1921.....	5,151,306	2,992,200	2,869,600	1,535,851	1,179,833	487,193	114,240	241,444
Dec 27, 1922.....	5,305,411	3,148,837	3,040,439	1,334,101	629,885	316,495	246,293	457,883
Dec 26, 1923.....	5,169,377	3,137,516	3,071,097	1,297,775	857,151	441,842	336,415	104,158
Dec 31, 1924.....	5,096,380	3,047,054	2,936,533	1,249,438	314,128	180,840	387,100	540,160
Dec 30, 1925.....	5,183,158	2,822,133	2,704,281	1,500,827	749,672	466,014	362,818	377,032
Dec 29, 1926.....	5,224,133	2,944,215	2,814,811	1,409,529	710,931	383,388	378,798	317,204
June 29, 1927.....	5,060,267	3,183,809	3,020,510	1,071,130	477,811	274,581	216,118	376,401
Dec 28, 1927.....	5,333,839	2,862,196	2,739,100	1,598,842	609,209	410,174	385,527	603,126
June 27, 1928.....	4,903,462	2,738,284	2,583,310	1,467,733	1,031,874	701,618	223,432	211,937
Dec 26, 1928.....	5,443,401	2,688,827	2,584,239	1,899,312	1,167,579	713,759	489,270	232,328
<b>Boston:</b>								
Dec 30, 1925.....	414,555	185,173	165,604	150,395	55,595	24,326	81,381	12,820
Dec 29, 1926.....	396,214	187,718	172,540	126,953	70,922	31,625	46,011	10,020
Dec 28, 1927.....	401,256	195,887	183,388	124,817	40,963	21,361	48,738	35,116
Dec 26, 1928.....	417,107	184,729	169,132	149,404	91,947	42,169	49,284	8,173
<b>New York:</b>								
Dec 30, 1925.....	1,566,330	968,813	942,738	395,186	294,975	254,469	37,090	60,934
Dec 29, 1926.....	1,586,019	1,032,281	1,009,019	339,793	173,655	123,873	100,045	66,093
Dec 28, 1927.....	1,648,099	884,319	862,128	528,097	263,487	197,994	95,931	168,679
Dec 26, 1928.....	1,630,306	805,507	787,031	602,020	387,841	253,819	159,387	54,792
<b>Philadelphia:</b>								
Dec 30, 1925.....	387,403	217,298	212,572	101,323	58,112	37,386	15,345	24,063
Dec 29, 1926.....	371,605	194,133	188,972	110,343	62,226	42,099	26,400	20,777
Dec 28, 1927.....	380,910	172,514	166,715	143,872	55,829	43,325	42,279	45,464
Dec 26, 1928.....	387,317	190,686	187,095	133,263	96,304	67,828	15,502	21,447
<b>Cleveland:</b>								
Dec 30, 1925.....	497,691	305,163	296,694	111,215	68,940	33,556	4,999	36,409
Dec 29, 1926.....	511,737	259,310	248,332	167,378	97,147	68,240	34,488	35,743
Dec 28, 1927.....	519,414	284,902	274,236	151,877	70,572	58,145	19,794	61,511
Dec 26, 1928.....	528,137	247,083	238,071	197,301	112,640	75,745	51,699	32,962
<b>Richmond:</b>								
Dec 30, 1925.....	245,797	106,077	99,789	61,606	49,517	16,893	2,716	8,944
Dec 29, 1926.....	231,160	115,282	108,597	45,660	25,278	6,596	13,147	7,235
Dec 28, 1927.....	227,678	71,921	65,562	89,440	28,636	9,022	48,152	12,452
Dec 26, 1928.....	236,512	96,884	91,079	69,074	40,517	18,971	25,130	8,427
<b>Atlanta:</b>								
Dec 30, 1925.....	295,950	126,771	119,923	123,360	29,126	4,754	76,045	17,852
Dec 29, 1926.....	283,720	175,498	165,923	67,736	42,759	2,870	23,205	1,772
Dec 28, 1927.....	262,475	175,177	163,801	48,769	32,685	9,482	2,251	13,573
Dec 26, 1928.....	248,365	119,376	110,835	95,812	59,882	16,952	30,465	5,285
<b>Chicago:</b>								
Dec 30, 1925.....	626,788	321,491	304,696	201,680	119,777	70,763	27,420	53,365
Dec 29, 1926.....	713,086	367,141	345,038	234,868	136,631	73,646	50,111	48,126
Dec 28, 1927.....	750,096	438,551	422,996	213,826	61,759	37,909	64,109	87,958
Dec 26, 1928.....	825,885	443,269	434,561	278,664	201,769	134,274	40,205	36,690
<b>St. Louis:</b>								
Dec 30, 1925.....	174,580	63,255	52,887	67,227	20,321	8,738	22,186	24,347
Dec 29, 1926.....	182,067	75,302	61,542	60,890	32,516	16,278	7,730	26,444
Dec 28, 1927.....	200,052	90,111	77,431	62,707	19,585	12,476	4,959	38,163
Dec 26, 1928.....	199,807	85,388	71,507	75,872	43,177	28,948	11,653	21,042
<b>Minneapolis:</b>								
Dec 30, 1925.....	149,524	86,853	84,706	41,708	3,545	769	18,763	19,078
Dec 29, 1926.....	145,857	90,528	87,446	35,278	4,860	324	13,061	16,761
Dec 28, 1927.....	144,185	77,985	74,235	44,626	2,234	484	17,872	23,900
Dec 26, 1928.....	145,172	77,033	75,123	47,925	13,201	10,689	21,932	10,907
<b>Kansas City:</b>								
Dec 30, 1925.....	221,812	98,619	94,341	70,626	15,939	4,042	16,816	37,447
Dec 29, 1926.....	214,108	104,577	99,630	58,181	11,234	4,104	18,283	28,664
Dec 28, 1927.....	214,261	101,817	96,373	62,334	15,920	9,230	8,072	38,342
Dec 26, 1928.....	220,314	110,449	105,503	61,755	48,533	23,254	1,209	10,513
<b>Dallas:</b>								
Dec 30, 1925.....	154,534	57,470	51,944	64,592	3,861	1,724	28,617	31,830
Dec 29, 1926.....	152,920	73,370	70,559	43,536	5,555	2,262	15,699	22,312
Dec 28, 1927.....	160,458	68,829	59,907	50,959	2,581	1,991	22,685	31,693
Dec 26, 1928.....	166,005	75,370	70,271	56,687	15,660	12,539	24,539	9,988
<b>San Francisco:</b>								
Dec 30, 1925.....	448,194	285,150	278,387	111,909	29,964	8,594	31,440	49,988
Dec 29, 1926.....	435,590	264,075	257,213	118,913	48,148	10,971	31,008	39,757
Dec 28, 1927.....	424,955	300,183	292,328	71,518	14,958	8,755	10,485	46,075
Dec 26, 1928.....	438,474	253,103	244,031	131,545	56,108	28,571	55,085	17,102

Source Federal Reserve Board.

## No. 250.—FEDERAL RESERVE BANKS: PRINCIPAL ITEMS OF LIABILITIES

[All figures except reserve percentage in thousands of dollars]

Bank and date	Capital	Surplus	Deposit liability		Federal reserve note circulation	Federal reserve bank notes, net liability	Reserve percentage
			Net <sup>1</sup>	Members' reserve			
<b>All banks:</b>							
Dec. 30, 1915.....	54,913	-----	394,245	(?)	159,026	-----	95.3
Dec. 30, 1920.....	99,770	164,745	1,604,190	1,748,979	3,314,686	216,960	45.4
Dec. 28, 1921.....	103,186	213,824	1,764,524	1,666,018	2,443,497	84,548	71.1
Dec. 27, 1922.....	107,256	215,398	1,900,255	1,861,281	2,464,121	10,632	72.1
Dec. 26, 1923.....	110,103	218,369	1,937,869	1,874,486	2,310,375	470	73.3
Dec. 31, 1924.....	112,038	217,837	2,310,668	2,220,436	1,862,062	-----	73.0
Dec. 30, 1925.....	117,042	217,837	2,357,141	2,308,614	1,335,010	-----	67.3
Dec. 29, 1926.....	124,824	220,310	2,345,738	2,264,144	1,857,015	-----	70.1
June 29, 1927.....	129,424	228,775	2,348,952	2,341,519	1,702,693	-----	77.6
Dec. 28, 1927.....	132,460	228,775	2,478,276	2,431,845	1,813,193	-----	66.8
June 27, 1928.....	140,313	233,319	2,381,800	2,344,709	1,604,635	-----	68.7
Dec. 26, 1928.....	146,818	233,319	2,455,093	2,409,195	1,910,838	-----	61.6
<b>Boston:</b>							
Dec. 30, 1925.....	8,611	16,382	146,095	144,070	175,990	-----	57.5
Dec. 29, 1926.....	8,800	17,020	147,809	144,306	155,397	-----	61.9
Dec. 28, 1927.....	9,412	17,006	156,805	155,193	151,697	-----	63.5
Dec. 26, 1928.....	10,160	17,893	152,800	152,061	167,041	-----	57.8
<b>New York:</b>							
Dec. 30, 1925.....	32,207	58,749	948,442	932,274	384,682	-----	72.7
Dec. 29, 1926.....	36,449	59,964	928,491	886,285	408,621	-----	77.2
Dec. 28, 1927.....	40,310	61,614	995,652	983,668	377,204	-----	64.4
Dec. 26, 1928.....	50,098	65,007	979,274	957,831	364,133	-----	60.0
<b>Philadelphia:</b>							
Dec. 30, 1925.....	11,623	20,059	138,227	135,545	156,439	-----	73.7
Dec. 29, 1926.....	12,605	20,464	138,802	138,802	136,040	-----	69.5
Dec. 28, 1927.....	13,237	21,267	143,614	141,483	146,469	-----	59.5
Dec. 26, 1928.....	14,536	21,662	137,553	136,328	157,257	-----	64.6
<b>Cleveland:</b>							
Dec. 30, 1925.....	13,176	22,462	168,991	165,200	234,403	-----	75.6
Dec. 29, 1926.....	13,618	22,894	183,624	180,034	225,601	-----	63.4
Dec. 28, 1927.....	13,979	23,746	188,062	186,390	225,939	-----	68.8
Dec. 26, 1928.....	14,422	24,021	187,900	186,171	230,145	-----	59.1
<b>Richmond:</b>							
Dec. 30, 1925.....	5,985	11,701	70,469	68,385	93,482	-----	64.7
Dec. 29, 1926.....	6,094	11,919	69,375	67,366	86,278	-----	74.1
Dec. 28, 1927.....	6,253	12,198	74,347	73,190	80,263	-----	46.5
Dec. 26, 1928.....	6,114	12,324	69,788	69,097	89,520	-----	60.8
<b>Atlanta:</b>							
Dec. 30, 1925.....	4,657	8,950	83,772	82,476	169,982	-----	50.0
Dec. 29, 1926.....	5,020	8,700	72,694	69,036	167,237	-----	73.1
Dec. 28, 1927.....	5,145	9,632	72,903	69,620	147,230	-----	79.6
Dec. 26, 1928.....	5,231	9,996	68,310	67,852	139,247	-----	57.5
<b>Chicago:</b>							
Dec. 30, 1925.....	15,731	30,426	327,041	324,211	179,712	-----	63.4
Dec. 29, 1926.....	16,720	30,013	334,081	328,171	250,556	-----	62.8
Dec. 28, 1927.....	17,965	31,881	351,926	346,855	271,754	-----	70.3
Dec. 26, 1928.....	18,478	32,778	359,407	356,753	331,855	-----	64.1
<b>St. Louis:</b>							
Dec. 30, 1925.....	5,127	9,971	84,259	81,166	40,302	-----	50.8
Dec. 29, 1926.....	5,293	9,570	83,284	80,588	48,046	-----	57.3
Dec. 28, 1927.....	5,341	9,939	88,528	86,445	57,536	-----	61.7
Dec. 26, 1928.....	5,407	10,397	85,559	84,420	65,747	-----	56.4
<b>Minneapolis:</b>							
Dec. 30, 1925.....	3,183	7,497	55,891	54,213	70,067	-----	69.0
Dec. 29, 1926.....	3,070	7,501	52,566	51,022	69,302	-----	74.3
Dec. 28, 1927.....	3,010	7,527	57,228	55,712	61,526	-----	65.7
Dec. 26, 1928.....	3,009	7,039	55,410	53,901	66,374	-----	63.3
<b>Kansas City:</b>							
Dec. 30, 1925.....	4,237	8,977	94,639	92,028	74,155	-----	58.4
Dec. 29, 1926.....	4,197	8,979	85,265	86,359	72,896	-----	64.9
Dec. 28, 1927.....	4,234	9,029	93,782	91,912	68,045	-----	62.9
Dec. 26, 1928.....	4,217	9,046	94,238	93,446	72,332	-----	60.3
<b>Dallas:</b>							
Dec. 30, 1925.....	4,267	7,592	65,273	63,354	47,462	-----	51.0
Dec. 29, 1926.....	4,302	7,615	62,267	58,914	49,230	-----	70.3
Dec. 28, 1927.....	4,272	8,215	69,840	68,312	48,789	-----	58.0
Dec. 26, 1928.....	4,329	8,527	72,473	71,389	50,594	-----	61.2
<b>San Francisco:</b>							
Dec. 30, 1925.....	8,238	15,071	174,042	165,692	208,334	-----	74.6
Dec. 29, 1926.....	8,656	15,071	180,884	173,171	187,211	-----	71.7
Dec. 28, 1927.....	9,302	16,121	180,589	173,065	176,746	-----	84.0
Dec. 26, 1928.....	10,867	16,629	192,081	179,946	176,593	-----	68.7

<sup>1</sup> Figures represent total deposits beginning June, 1921.<sup>2</sup> Not reported separately in 1915.

Source: Federal Reserve Board.

# No. 251.—FEDERAL RESERVE BANKS: DISCOUNT AND OPEN-MARKET OPERATIONS

NOTE.—All figures in thousands of dollars. These figures represent the aggregate of transactions during the course of each year. For amounts held at specified dates see Table 253, 254, and 255

Bills discounted for member banks <sup>1</sup>							
Year and bank	Total	Total	Member bank collateral notes	Commercial, agricultural, and live-stock paper, n. e. s.	Demand and sight drafts	Bank-ers' accept-ances	Trade accept-ances
ALL F. R. BANKS							
1919	86,737,067	79,173,970	72,548,008	6,415,899		71,643	138,420
1920	96,527,548	85,320,874	55,565,447	29,376,108		187,162	192,157
1921	63,141,608	57,759,128	31,229,142	26,343,947		57,095	128,944
1922	28,543,552	22,082,887	15,683,483	6,351,716		3,416	44,272
1923	44,428,375	38,379,926	29,916,868	8,340,676	67,457	3,532	51,393
1924	19,863,473	15,419,155	12,456,575	2,877,127	46,621	507	38,325
1925	37,891,865	32,562,620	30,928,464	1,586,562	23,850	56	23,688
1926	43,674,574	37,682,137	35,696,981	1,951,989	12,676	175	20,316
1927	42,355,329	31,934,607	30,576,457	1,332,964	9,075	214	15,897
1928	70,910,325	62,412,961	60,598,691	1,775,082	24,853	144	14,211
Boston	5,147,426	4,284,602	4,224,180	59,726			696
New York	29,711,299	24,701,839	24,638,857	150,922		23	2,037
Philadelphia	5,208,777	4,969,666	4,871,198	97,426			1,042
Cleveland	6,390,675	6,058,546	5,930,840	124,637			3,069
Richmond	3,964,489	3,840,120	3,702,831	136,190			1,099
Atlanta	1,484,175	1,326,634	1,014,693	305,093	2,776		4,072
Chicago	6,701,010	5,928,134	5,388,774	538,704		41	615
St. Louis	3,117,856	3,002,246	2,832,066	164,886	4,425		869
Minneapolis	765,048	625,358	599,902	25,456			
Kansas City	1,546,741	1,359,337	1,285,896	73,426	15		
Dallas	958,133	737,651	671,685	48,021	17,584		361
San Francisco	5,914,693	5,488,828	5,437,769	50,575	53	80	351

Year and bank	Acceptances purchased in open market				United States securities purchased in open market				Other securities <sup>5</sup>
	Total <sup>2</sup>	Bought outright <sup>3</sup>		Bought with resale agree-ment <sup>4</sup>	Total	Bought outright <sup>3, 4</sup>		Bought with resale agree-ment <sup>3</sup>	
		Bankers	Trade			Bonds	Treasury notes and certifi-cates		
ALL F. R. BANKS									
1919	2,825,177	2,788,619	36,558		4,737,920	1,757	4,736,163		
1920	3,218,364	3,143,737	74,627		7,988,310	332	7,987,978		
1921	1,534,401	1,527,235	7,166		3,847,094	38,532	3,808,562		985
1922	1,954,688	1,948,379	6,309		4,505,801	350,196	4,155,605		176
1923	2,547,010	2,533,470	13,540		3,500,903	62,837	2,354,106	1,083,960	536
1924	2,172,142	2,159,862	8,452		2,267,018	118,312	1,912,092	226,614	15,158
1925	2,961,170	2,951,920	4,765		2,317,082	38,037	1,575,499	703,546	50,549
1926	3,353,326	1,693,861	5,591	1,647,065	2,608,045	137,162	2,051,191	419,692	31,066
1927	4,050,867	1,762,316	4,811	2,251,162	6,356,134	446,137	5,169,618	740,379	13,721
1928	4,240,669	2,051,292	3,744	2,182,035	4,238,790	48,913	3,118,583	1,071,944	17,905
Boston	748,364	372,142		376,128	114,460	3,037	101,139	10,284	
New York	2,018,463	471,206	3,744	1,542,255	2,897,647	7,497	2,113,544	776,606	3,350
Philadelphia	139,821	139,702			99,035	3,445	95,590		255
Cleveland	195,413	143,842			136,719	3,604	133,115		
Richmond	103,311	103,247			21,058	754	20,304		
Atlanta	96,854	96,802			60,687	7,553	45,186	7,948	
Chicago	324,613	219,391		105,048	448,263	11,401	247,332	189,530	
St. Louis	36,202	36,148			79,408	2,348	77,060		
Minneapolis	69,843	69,309			67,297	1,120	66,177		3,050
Kansas City	71,668	71,623			114,236	2,621	56,765	54,850	1,500
Dallas	114,664	89,417		25,203	96,318	2,933	61,259	32,126	9,500
San Francisco	321,953	188,463		133,401	103,662	2,600	101,062		250

<sup>1</sup> Includes bills discounted for Federal intermediate credit banks, 1923 to 1928, and also bills secured by adjusted service certificates discounted for nonmember banks, 1927 and 1928. For amounts see headnote, table 252.

<sup>2</sup> Includes bills payable in foreign currencies in addition to amounts shown in following columns.

<sup>3</sup> "Bought outright" includes "bills bought with resale agreement" where separate figures are not shown. The latter represent bills bought with the agreement that other banks will repurchase them in 15 days.

<sup>4</sup> Includes special temporary certificates issued to Federal reserve banks by the Secretary of the Treasury; also prior to 1922 securities, if any, purchased from other Federal reserve banks.

<sup>5</sup> Figures for 1923 and prior years represent municipal warrants, thereafter, they include also foreign loans on gold, Federal intermediate credit bank debentures, and Federal land bank bonds.

Source: Federal Reserve Board.



## No. 252.—FEDERAL RESERVE BANKS: BILLS DISCOUNTED FOR MEMBER BANKS

NOTE.—All figures in thousands of dollars. These figures represent the aggregate of transactions during each year, whether in shorter or longer term paper, not holdings at a specified date. Figures include bills discounted for Federal intermediate credit banks, as follows: 1923, \$2,250,000; 1924, \$1,100,000; 1925, \$1,406,000; 1926, \$10,501,000; 1927, \$9,322,109; and 1928, \$23,105,000; also includes bills secured by adjusted service certificates discounted for nonmember banks, as follows: 1927, \$504,000, and 1928, \$183,000

State and division	1922	1923	1924	1925	1926	1927	1928
<b>United States</b> .....	<b>22,082,887</b>	<b>38,379,926</b>	<b>15,419,155</b>	<b>32,562,620</b>	<b>37,682,137</b>	<b>31,934,607</b>	<b>62,412,961</b>
<b>New England</b> .....	<b>2,278,633</b>	<b>3,665,259</b>	<b>828,785</b>	<b>2,074,149</b>	<b>2,782,630</b>	<b>2,143,551</b>	<b>4,327,748</b>
Maine.....	42,621	49,002	42,267	42,347	33,826	33,903	39,762
New Hampshire.....	40,246	60,722	42,453	42,577	41,450	28,658	36,227
Vermont.....	21,409	27,118	18,024	18,158	19,566	14,537	18,597
Massachusetts.....	2,068,564	3,395,562	645,969	1,872,751	2,557,919	1,915,716	3,959,401
Rhode Island.....	16,392	30,023	16,117	26,606	21,810	36,278	132,005
Connecticut.....	87,401	102,832	63,955	71,710	108,059	114,459	141,756
<b>Middle Atlantic</b> .....	<b>12,422,245</b>	<b>22,265,877</b>	<b>9,070,026</b>	<b>21,066,527</b>	<b>22,163,150</b>	<b>18,834,035</b>	<b>34,069,980</b>
New York.....	8,837,014	17,408,047	6,653,107	16,522,907	16,288,428	13,035,021	23,110,181
New Jersey.....	506,559	738,692	528,775	679,684	1,099,779	911,487	1,802,948
Pennsylvania.....	3,078,672	4,118,888	1,888,144	3,843,936	4,774,943	4,864,527	9,156,831
<b>East North Central</b> .....	<b>2,156,040</b>	<b>3,392,186</b>	<b>1,478,254</b>	<b>3,139,645</b>	<b>4,071,166</b>	<b>3,611,843</b>	<b>7,561,016</b>
Ohio.....	669,974	933,910	489,691	1,083,257	1,099,125	823,876	1,623,821
Indiana.....	157,255	201,529	112,519	108,387	148,441	90,515	143,194
Illinois.....	694,581	1,328,285	402,748	888,176	1,385,029	1,457,284	3,774,914
Michigan.....	540,791	783,676	378,601	945,034	1,213,003	1,041,452	1,733,481
Wisconsin.....	93,439	144,786	94,665	114,791	225,568	198,716	305,606
<b>West North Central</b> .....	<b>749,919</b>	<b>1,772,372</b>	<b>563,396</b>	<b>680,087</b>	<b>1,508,902</b>	<b>1,236,429</b>	<b>3,226,262</b>
Minnesota.....	97,457	232,199	61,095	73,903	203,977	124,494	160,177
Iowa.....	198,467	181,396	122,560	83,057	68,190	45,266	69,374
Missouri.....	290,008	1,118,523	279,964	426,014	1,079,595	934,194	2,320,930
North Dakota.....	20,768	14,276	12,030	3,430	4,915	6,004	4,914
South Dakota.....	27,885	19,594	13,448	8,319	6,412	4,726	1,958
Nebraska.....	85,134	173,458	50,305	69,966	122,761	97,866	156,772
Kansas.....	30,200	32,926	20,994	15,378	23,072	23,789	62,137
<b>South Atlantic</b> .....	<b>1,651,636</b>	<b>3,237,805</b>	<b>1,594,051</b>	<b>2,518,514</b>	<b>3,069,281</b>	<b>1,660,184</b>	<b>4,434,779</b>
Delaware.....	16,731	11,578	5,976	8,078	11,550	11,509	31,588
Maryland.....	269,905	455,112	160,308	410,487	517,286	567,082	1,214,375
District of Columbia.....	284,791	613,041	105,456	126,566	177,171	67,324	293,555
Virginia.....	526,888	1,235,751	507,935	785,062	1,079,021	596,760	1,698,332
West Virginia.....	124,432	206,836	260,940	201,272	207,127	157,564	125,090
North Carolina.....	131,470	358,458	308,177	733,970	718,093	81,115	576,415
South Carolina.....	102,574	46,491	55,981	57,007	72,292	38,580	52,682
Georgia.....	157,386	210,443	161,060	192,501	241,522	98,951	498,083
Florida.....	37,459	70,065	28,218	2,941	45,219	41,290	64,864
<b>East South Central</b> .....	<b>680,626</b>	<b>1,067,396</b>	<b>464,661</b>	<b>427,981</b>	<b>871,400</b>	<b>662,172</b>	<b>1,568,018</b>
Kentucky.....	446,591	740,537	186,961	250,809	559,936	445,373	1,113,998
Tennessee.....	150,536	229,722	200,045	114,938	231,226	103,087	183,338
Alabama.....	61,382	65,377	48,689	47,733	76,144	90,894	236,569
Mississippi.....	22,117	25,760	28,966	14,451	24,094	22,815	32,113
<b>West South Central</b> .....	<b>477,098</b>	<b>691,458</b>	<b>436,779</b>	<b>429,200</b>	<b>679,517</b>	<b>700,570</b>	<b>1,419,438</b>
Arkansas.....	74,450	87,571	73,260	69,035	111,101	50,164	208,778
Louisiana.....	153,952	275,523	194,608	228,025	324,753	356,926	432,467
Oklahoma.....	56,677	60,393	37,621	17,349	32,153	26,260	51,500
Texas.....	192,010	267,971	131,290	114,191	211,510	267,310	719,743
<b>Mountain</b> .....	<b>426,817</b>	<b>346,847</b>	<b>154,451</b>	<b>163,662</b>	<b>174,519</b>	<b>223,370</b>	<b>461,681</b>
Montana.....	28,370	17,997	7,473	1,792	2,107	1,903	2,542
Idaho.....	211,076	127,964	76,419	35,689	12,566	13,250	3,550
Wyoming.....	8,955	5,041	4,637	494	787	693	583
Colorado.....	77,258	139,377	35,445	68,720	110,579	129,651	301,570
New Mexico.....	14,471	15,056	5,951	2,497	1,619	2,030	1,167
Arizona.....	17,758	5,337	2,196	2,309	4,098	3,337	683
Utah.....	68,666	35,792	22,293	52,091	42,763	71,506	151,586
Nevada.....	263	283	37	80			
<b>Pacific</b> .....	<b>1,241,873</b>	<b>1,940,926</b>	<b>828,752</b>	<b>2,063,925</b>	<b>2,361,572</b>	<b>2,863,453</b>	<b>5,333,009</b>
Washington.....	75,274	122,584	71,349	151,109	152,548	184,194	621,232
Oregon.....	59,387	107,644	63,468	84,381	109,758	51,249	121,322
California.....	1,107,212	1,710,698	693,935	1,827,435	2,099,266	2,628,010	4,590,455

Source: Federal Reserve Board.

**No. 253.—FEDERAL RESERVE BANKS: HOLDINGS OF ACCEPTANCES BOUGHT IN OPEN MARKET AND FROM OTHER FEDERAL RESERVE BANKS, AS OF DECEMBER 31**

**NOTE.—All figures in thousands of dollars. "All other bankers' acceptances" includes bills payable in foreign currencies in 1924 to 1928**

Bank and year	Total	Bankers' acceptances, based on—						Trade acceptances, total
		Total	Imports	Exports	Goods stored abroad or in transit	Domestic transactions	Dollar exchange	All other
<b>All F. R. banks:</b>								
1919	574, 103	566, 369						7, 734
1920	260, 406	258, 878						1, 528
1921	145, 263	145, 045			99, 919	33, 962	11, 164	218
1922	272, 122	270, 944			194, 771	65, 280	9, 743	1, 178
1923	354, 637	351, 974			240, 868	90, 445	20, 452	2, 663
1924	387, 100	386, 873			284, 620	94, 556	6, 882	815
1925	374, 356	373, 139			301, 191	63, 846	6, 112	1, 990
1926	380, 986	379, 728	131, 907	120, 335	37, 714	77, 698	8, 434	3, 640
1927	392, 039	391, 337	84, 624	118, 210	81, 242	95, 795	6, 195	5, 271
1928	489, 069	488, 532	108, 431	131, 368	143, 123	80, 664	8, 707	6, 221
Boston	54, 619	54, 619	14, 874	12, 854	11, 056		784	586
New York	152, 413	151, 876	30, 224	39, 415	48, 350	27, 780	4, 494	1, 612
Philadelphia	16, 234	16, 234	2, 435	4, 981	2, 962	5, 368		339
Cleveland	52, 377	52, 377	14, 314	14, 704	16, 474	5, 237	1, 332	316
Richmond	24, 369	24, 369	3, 866	4, 872	8, 472	6, 015	543	601
Atlanta	32, 002	32, 002	10, 256	7, 478	8, 798	4, 920	75	477
Chicago	39, 078	39, 078	9, 548	12, 507	9, 159	7, 189	503	172
St. Louis	11, 335	11, 335	2, 110	2, 849	5, 077	7, 706	110	483
Minneapolis	21, 820	21, 820	6, 156	6, 088	5, 544	3, 713	250	69
Kansas City	96	96	6	26	27			37
Dallas	25, 420	25, 420	5, 517	10, 257	6, 120	3, 385	105	36
San Francisco	59, 306	59, 306	9, 125	15, 356	17, 675	15, 295	362	1, 493

**No. 254.—FEDERAL RESERVE BANKS: HOLDINGS OF UNITED STATES SECURITIES, AS OF DECEMBER 31**

**NOTE.—All figures in millions and tenths of millions of dollars. Certificates include Pittman Act certificates as follows. 1919 and 1920, \$259,400,000, 1921, \$113,000,000**

Bank and year	Total	Bonds	Notes	Certificates	Bank and year	Total	Bonds	Notes	Certificates
<b>All F. R. banks:</b>					<b>Atlanta</b>				
1919	300.1	26.8	0.1	273.2	1926	1.9	0.4	1.5	
1920	287.0	26.3	.1	260.6	1927	13.6	6.0	9	6.7
1921	234.1	33.0	17.6	183.5	1928	7.3	1.6	4.3	1.4
1922	436.2	28.9	180.4	226.9	<b>Chicago:</b>				
1923	133.6	29.5	87.0	17.1	1926	48.8	20.5	5.5	22.8
1924	540.2	75.3	349.4	115.5	1927	90.0	48.9	8.1	33.0
1925	374.6	60.8	187.1	126.7	1928	35.9	19.9	6.2	9.7
1926	314.8	48.0	87.4	179.5	<b>St. Louis:</b>				
1927	616.5	291.0	68.9	256.7	1926	21.1	2.0	7.0	12.1
1928	228.1	53.9	106.0	68.2	1927	33.2	18.9	7.4	11.9
<b>Boston:</b>					1928	21.0	7.1	11.6	2.4
1926	10.2	.5	2.1	7.5	<b>Minneapolis:</b>				
1927	33.4	15.2	2.5	15.7	1926	17.0	7.6	1.8	7.6
1928	8.2	.7	3.1	4.4	1927	23.9	11.7	4.4	7.8
<b>New York:</b>					1928	10.9	4.5	4.6	1.8
1926	53.9	1.4	11.6	45.9	<b>Kansas City:</b>				
1927	181.5	66.3	21.8	93.4	1926	29.2	8.8	4.1	16.2
1928	49.4	1.4	20.1	27.9	1927	38.3	21.2	2.7	14.4
<b>Philadelphia:</b>					1928	10.5	8.5	.9	1.1
1926	20.2	.6	15.4	4.3	<b>Dallas:</b>				
1927	45.7	17.4	6.4	21.8	1926	23.3	3.7	3.8	15.8
1928	21.4	.6	10.3	10.6	1927	32.0	18.1	2.7	11.2
<b>Cleveland:</b>					1928	10.0	7.8	2.2	
1926	36.2	1.2	18.3	16.7	<b>San Francisco:</b>				
1927	61.5	35.0	9.0	17.5	1926	40.7	.1	14.9	25.7
1928	33.0	.5	28.5	3.9	1927	46.1	26.0	2.3	17.8
<b>Richmond:</b>					1928	17.1	.1	13.1	3.9
1926	7.4	1.2	1.3	5.0					
1927	12.5	6.2	.7	5.5					
1928	3.4	1.2	1.1	1.2					

Source of Tables 253 and 254: Federal Reserve Board.

# No. 255.—FEDERAL RESERVE BANKS: HOLDINGS OF DISCOUNTED BILLS BY CLASSES AND MATURITIES

NOTE.—All figures in thousands of dollars. Figures by maturities in certain years are for an earlier date than those by classes and in such cases the totals may differ materially

Bank and date	Total (all classes)	Rediscounted bills				Member bank collateral notes	
		Commercial and agri- cultural paper, not elsewhere specified	Bankers' accept- ances	Trade accept- ances	Paper secured by U. S Govern- ment obli- gations	Secured by U. S. Govern- ment obli- gations	Other- wise secured
All Federal reserve banks:							
Dec 28, 1917.....	680,706	309,534	(1)	(1)	132,774	150,647	87,751
Dec 27, 1918.....	1,702,938	264,967	(1)	15,985	303,023	1,037,348	21,615
Dec 26, 1919.....	2,194,878	627,083	15,479	33,697	352,598	1,157,766	8,253
Dec 30, 1920.....	2,719,134	1,521,546	17,218	21,427	271,526	809,510	17,907
Dec 31, 1921.....	1,144,346	631,038	338	9,985	41,511	443,722	17,752
Dec 30, 1922.....	617,780	270,781	330	4,844	3,618	328,172	10,035
Dec 31, 1923.....	723,068	355,816	233	7,042	3,919	319,766	6,292
Dec 31, 1924.....	314,128	102,086	-----	3,353	1,276	185,561	21,849
Dec 31, 1925.....	635,193	177,311	-----	3,357	1,872	380,279	72,374
Dec 31, 1926.....	636,628	170,961	-----	2,812	1,111	364,169	97,575
Dec 31, 1927.....	581,503	87,985	-----	1,400	163	417,566	74,389
Dec 31, 1928.....	1,058,466	214,966	46	1,645	974	658,242	180,573
Boston.....	69,244	40,354	-----	71	190	28,626	-----
New York.....	463,980	18,503	-----	176	-----	349,156	96,145
Philadelphia.....	84,314	10,175	-----	139	-----	59,548	14,452
Cleveland.....	92,702	19,296	-----	327	21	60,063	12,995
Richmond.....	38,561	12,129	-----	53	42	17,036	9,301
Atlanta.....	41,020	22,479	-----	673	69	9,398	8,401
Chicago.....	146,519	58,795	41	127	519	80,353	6,684
St. Louis.....	35,539	6,452	-----	76	129	20,339	8,543
Minneapolis.....	4,495	2,013	-----	-----	4	2,228	250
Kansas City.....	31,143	18,070	-----	-----	-----	7,451	5,613
Dallas.....	11,161	1,587	-----	-----	-----	9,001	573
San Francisco.....	37,788	5,124	5	-----	-----	15,043	17,616
Bank and date	Total	Maturity of discounted bills					
		Within 15 days	16 to 30 days	31 to 60 days	61 to 90 days	After 90 days	Average for year <sup>2</sup>
All Federal reserve banks:							
Dec. 30, 1915.....	32,368	<sup>3</sup> 5,229	<sup>4</sup> 9,012	9,352	4,694	4,081	-----
Dec 29, 1916.....	30,196	<sup>3</sup> 9,927	<sup>4</sup> 11,794	5,006	2,423	1,046	-----
Dec 28, 1917.....	680,706	353,373	57,367	175,006	83,974	8,986	-----
Dec 27, 1918.....	1,702,938	1,149,955	266,107	166,876	93,061	26,939	11 81
Dec 26, 1919.....	2,194,878	1,484,790	244,890	292,715	152,125	20,358	10 13
Dec 30, 1920.....	2,719,134	1,632,885	280,406	430,676	311,619	63,548	13 29
Dec 28, 1921.....	1,179,833	708,361	116,690	161,202	131,936	61,644	13 63
Dec 27, 1922.....	629,885	436,465	48,609	63,372	50,059	31,380	12 14
Dec 26, 1923.....	837,151	612,660	64,310	84,069	66,514	29,598	9 89
Dec 31, 1924.....	314,128	241,693	18,335	26,413	17,343	10,434	12 39
Dec 30, 1925.....	749,672	616,325	35,816	53,152	33,429	10,951	7 99
Dec 29, 1926.....	710,931	575,544	38,365	49,876	37,232	9,414	8 04
Dec 28, 1927.....	609,209	537,482	18,300	26,892	18,617	7,888	7 58
Dec 26, 1928.....	1,167,679	1,012,581	88,749	66,509	38,818	18,124	6 78
Boston.....	91,947	87,095	1,282	2,204	1,228	138	5 94
New York.....	387,841	379,747	2,366	3,143	2,565	20	5 05
Philadelphia.....	96,301	87,364	3,023	4,571	1,290	56	6 84
Cleveland.....	112,640	98,314	4,781	5,207	4,124	124	5 49
Richmond.....	40,517	31,184	3,697	3,571	1,921	144	4 24
Atlanta.....	59,882	35,407	6,459	9,973	6,452	1,591	21 55
Chicago.....	201,769	151,244	13,020	22,285	13,251	1,969	12 66
St. Louis.....	43,177	35,594	1,790	3,861	1,745	187	9 04
Minneapolis.....	13,201	9,347	147	476	2,362	869	9 08
Kansas City.....	48,533	31,515	1,148	2,726	2,291	10,853	9 78
Dallas.....	15,660	14,025	129	503	360	43	10 69
San Francisco.....	56,108	51,145	907	899	1,027	2,130	5 73

<sup>1</sup> Included with "commercial and agricultural paper, not elsewhere specified."

<sup>2</sup> Represents average maturity (in days) of all time bills discounted during year.

<sup>3</sup> Within 10 days

<sup>4</sup> From 11 to 30 days.

Source: Federal Reserve Board

## No. 256.—FEDERAL RESERVE BANKS: DISCOUNT RATES

NOTE.—For rates for 1914-15 see Table 249, Statistical Abstract 1928

Bank and period	Commerical, agricultural, and livestock paper, not elsewhere specified						Agricultural and livestock paper 91 days to 6 months		Paper within 90 days secured by U. S. Gov't obligations		Trade acceptances within 60 days <sup>1</sup>		Trade acceptances 61 to 90 days		Bankers' acceptances within 3 months		Commodity paper within 90 days <sup>2</sup>	
	Within 30 days		31 to 60 days		61 to 90 days		High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
	High	Low	High	Low	High	Low												
<b>Boston:</b>																		
1916	4 5	3	4 4	4 4	4 4	4 4	5 5	5 5	4 4	3 3	3 3	3 3	3 3	3 3	---	---	4 4	3 3
1917	4 5	3 3	4 5	4 4	4 4	4 4	5 5	5 5	4 4	3 3	3 3	3 3	3 3	3 3	---	---	4 4	3 3
1918	5 5	4 4	5 5	4 4	4 4	4 4	5 5	5 5	4 4	3 3	3 3	3 3	3 3	3 3	---	---	4 4	3 3
1919	4 4	4 4	4 4	4 4	4 4	4 4	5 5	5 5	4 4	3 3	3 3	3 3	3 3	3 3	---	---	4 4	3 3
1920	7 7	4 4	7 7	4 4	7 7	4 4	7 7	4 4	6 6	4 4	7 7	4 4	7 7	4 4	5 5	5 5	---	---
1921	7 7	4 4	7 7	4 4	7 7	4 4	7 7	4 4	6 6	4 4	7 7	4 4	7 7	4 4	---	---	---	---
<b>New York:</b>																		
1916	4 4	3	4 4	4 4	4 4	4 4	5 5	5 5	4 4	3 3	3 3	3 3	3 3	3 3	---	---	---	---
1917	4 4	3 3	4 4	4 4	4 4	4 4	5 5	5 5	4 4	3 3	3 3	3 3	3 3	3 3	---	---	---	---
1918	4 4	3 3	4 4	4 4	4 4	4 4	5 5	5 5	4 4	3 3	3 3	3 3	3 3	3 3	---	---	---	---
1919	4 4	3 3	4 4	4 4	4 4	4 4	5 5	5 5	4 4	3 3	3 3	3 3	3 3	3 3	---	---	---	---
1920	7 7	4 4	7 7	4 4	7 7	4 4	7 7	4 4	6 6	4 4	7 7	4 4	7 7	4 4	4 4	4 4	---	---
1921	7 7	4 4	7 7	4 4	7 7	4 4	7 7	4 4	6 6	4 4	7 7	4 4	7 7	4 4	4 4	4 4	---	---
<b>Philadelphia:</b>																		
1916	4 4	3	4 4	4 4	4 4	4 4	5 5	5 5	4 4	3 3	3 3	3 3	3 3	3 3	---	---	3 3	3 3
1917	4 4	3 3	4 4	4 4	4 4	4 4	5 5	5 5	4 4	3 3	3 3	3 3	3 3	3 3	---	---	3 3	3 3
1918	4 4	3 3	4 4	4 4	4 4	4 4	5 5	5 5	4 4	3 3	3 3	3 3	3 3	3 3	---	---	---	---
1919	4 4	3 3	4 4	4 4	4 4	4 4	5 5	5 5	4 4	3 3	3 3	3 3	3 3	3 3	---	---	---	---
1920	6 6	4 4	6 6	4 4	6 6	4 4	6 6	5 5	6 6	4 4	6 6	4 4	6 6	4 4	6 6	5 5	---	---
1921	6 6	4 4	6 6	4 4	6 6	4 4	6 6	4 4	6 6	4 4	6 6	4 4	6 6	4 4	6 6	5 5	---	---
<b>Cleveland:</b>																		
1916	4 4	3 3	4 4	4 4	4 4	4 4	5 5	5 5	4 4	3 3	3 3	3 3	3 3	3 3	---	---	---	---
1917	4 4	3 3	4 4	4 4	4 4	4 4	5 5	5 5	4 4	3 3	3 3	3 3	3 3	3 3	---	---	---	---
1918	4 4	3 3	4 4	4 4	4 4	4 4	5 5	5 5	4 4	3 3	3 3	3 3	3 3	3 3	---	---	---	---
1919	4 4	3 3	4 4	4 4	4 4	4 4	5 5	5 5	4 4	3 3	3 3	3 3	3 3	3 3	---	---	---	---
1920	6 6	4 4	6 6	4 4	6 6	4 4	6 6	5 5	6 6	4 4	6 6	4 4	6 6	4 4	6 6	5 5	---	---
1921	6 6	4 4	6 6	4 4	6 6	4 4	6 6	5 5	6 6	4 4	6 6	4 4	6 6	4 4	6 6	5 5	---	---
<b>Richmond:</b>																		
1916	4 4	4 4	4 4	4 4	4 4	4 4	5 5	4 4	4 4	3 3	3 3	3 3	3 3	3 3	---	---	3 3	3 3
1917	4 4	3 3	4 4	4 4	4 4	4 4	5 5	4 4	4 4	3 3	3 3	3 3	3 3	3 3	---	---	3 3	3 3
1918	5 5	4 4	5 5	4 4	5 5	4 4	5 5	4 4	4 4	3 3	3 3	3 3	3 3	3 3	---	---	---	---
1919	4 4	4 4	4 4	4 4	4 4	4 4	5 5	5 5	4 4	3 3	3 3	3 3	3 3	3 3	---	---	---	---
1920	6 6	4 4	6 6	4 4	6 6	4 4	6 6	5 5	6 6	4 4	6 6	4 4	6 6	4 4	6 6	5 5	---	---
1921	6 6	5 5	6 6	5 5	6 6	5 5	6 6	5 5	6 6	5 5	6 6	5 5	6 6	5 5	6 6	5 5	---	---
<b>Atlanta:</b>																		
1916	4 4	4 4	4 4	4 4	4 4	4 4	5 5	5 5	4 4	3 3	3 3	3 3	3 3	3 3	---	---	3 3	3 3
1917	4 4	3 3	4 4	4 4	4 4	4 4	5 5	5 5	4 4	3 3	3 3	3 3	3 3	3 3	---	---	3 3	3 3
1918	4 4	3 3	4 4	4 4	4 4	4 4	5 5	5 5	4 4	3 3	3 3	3 3	3 3	3 3	---	---	---	---
1919	4 4	3 3	4 4	4 4	4 4	4 4	5 5	5 5	4 4	3 3	3 3	3 3	3 3	3 3	---	---	---	---
1920	7 7	4 4	7 7	4 4	7 7	4 4	7 7	5 5	6 6	4 4	7 7	4 4	7 7	4 4	6 6	5 5	---	---
1921	7 7	5 5	7 7	5 5	7 7	5 5	7 7	5 5	6 6	5 5	7 7	5 5	7 7	5 5	6 6	5 5	---	---
<b>Chicago:</b>																		
1916	4 4	3 3	4 4	4 4	4 4	4 4	5 5	5 5	4 4	3 3	3 3	3 3	3 3	3 3	---	---	---	---
1917	4 4	3 3	4 4	4 4	4 4	4 4	5 5	5 5	4 4	3 3	3 3	3 3	3 3	3 3	---	---	---	---
1918	4 4	3 3	4 4	4 4	4 4	4 4	5 5	5 5	4 4	3 3	3 3	3 3	3 3	3 3	---	---	---	---
1919	4 4	3 3	4 4	4 4	4 4	4 4	5 5	5 5	4 4	3 3	3 3	3 3	3 3	3 3	---	---	---	---
1920	7 7	4 4	7 7	4 4	7 7	4 4	7 7	5 5	6 6	4 4	7 7	4 4	7 7	4 4	6 6	5 5	---	---
1921	7 7	5 5	7 7	5 5	7 7	5 5	7 7	5 5	6 6	5 5	7 7	5 5	7 7	5 5	6 6	5 5	---	---
<b>St. Louis:</b>																		
1916	4 4	3	4 4	4 4	4 4	4 4	5 5	4 4	4 4	3 3	3 3	3 3	3 3	3 3	---	---	3 3	3 3
1917	4 4	3 3	4 4	4 4	4 4	4 4	5 5	4 4	4 4	3 3	3 3	3 3	3 3	3 3	---	---	3 3	3 3
1918	4 4	3 3	4 4	4 4	4 4	4 4	5 5	4 4	4 4	3 3	3 3	3 3	3 3	3 3	---	---	---	---
1919	4 4	3 3	4 4	4 4	4 4	4 4	5 5	4 4	4 4	3 3	3 3	3 3	3 3	3 3	---	---	---	---
1920	6 6	4 4	6 6	4 4	6 6	4 4	6 6	5 5	6 6	4 4	6 6	4 4	6 6	4 4	6 6	5 5	---	---
1921	6 6	5 5	6 6	5 5	6 6	5 5	6 6	5 5	6 6	5 5	6 6	5 5	6 6	5 5	6 6	5 5	---	---
<b>Minneapolis:</b>																		
1916	4 4	4 4	4 4	4 4	4 4	4 4	5 5	5 5	4 4	3 3	3 3	3 3	3 3	3 3	---	---	3 3	3 3
1917	4 4	4 4	4 4	4 4	4 4	4 4	5 5	5 5	4 4	3 3	3 3	3 3	3 3	3 3	---	---	3 3	3 3
1918	4 4	4 4	4 4	4 4	4 4	4 4	5 5	5 5	4 4	3 3	3 3	3 3	3 3	3 3	---	---	---	---
1919	4 4	4 4	4 4	4 4	4 4	4 4	5 5	5 5	4 4	3 3	3 3	3 3	3 3	3 3	---	---	---	---
1920	7 7	4 4	7 7	4 4	7 7	4 4	7 7	5 5	6 6	4 4	7 7	4 4	7 7	4 4	6 6	5 5	---	---
1921	7 7	5 5	7 7	5 5	7 7	5 5	7 7	5 5	6 6	5 5	7 7	5 5	7 7	5 5	6 6	5 5	---	---
<b>Kansas City:</b>																		
1916	4 4	3 3	4 4	4 4	4 4	4 4	5 5	5 5	4 4	3 3	3 3	3 3	3 3	3 3	---	---	4 4	3 3
1917	4 4	3 3	4 4	4 4	4 4	4 4	5 5	5 5	4 4	3 3	3 3	3 3	3 3	3 3	---	---	4 4	3 3
1918	5 5	4 4	5 5	4 4	5 5	4 4	5 5	5 5	4 4	3 3	3 3	3 3	3 3	3 3	---	---	---	---
1919	5 5	4 4	5 5	4 4	5 5	4 4	5 5	5 5	4 4	3 3	3 3	3 3	3 3	3 3	---	---	---	---
1920	6 6	5 5	6 6	5 5	6 6	5 5	6 6	5 5	6 6	4 4	6 6	5 5	6 6	5 5	6 6	5 5	---	---
1921	6 6	5 5	6 6	5 5	6 6	5 5	6 6	5 5	6 6	4 4	6 6	5 5	6 6	5 5	6 6	5 5	---	---

For footnotes see p. 255.

## No. 256.—FEDERAL RESERVE BANKS: DISCOUNT RATES—Continued

Bank and period	Commercial, agricultural, and livestock paper, not elsewhere specified						Agricultural and livestock paper within 91 days to 6 months		Paper within 90 days secured by U. S. Gov't obligations		Trade acceptances within 60 days <sup>1</sup>		Trade acceptances within 61 to 90 days		Bankers' acceptances within 3 months		Commodity paper within 90 days <sup>2</sup>	
	Within 30 days		31 to 60 days		61 to 90 days													
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
Dallas																		
1916	4	4	4	4	4	4	4	4	4	4	3	3	4	4			3	3
1917	4	4	4	4	4	4	4	4	4	4	3	3	4	4			3	3
1918	4	4	4	4	4	4	4	4	4	4	3	3	4	4				
1919	5	5	5	5	5	5	5	5	5	5	5	5	5	5				
1920	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	5		
1921	7	7	7	7	7	7	7	7	7	7	7	7	7	7	5	5		
San Francisco:																		
1916	3	3	4	4	4	4	6	5			3	3	3	3			( <sup>3</sup> )	( <sup>3</sup> )
1917	4	4	4	4	4	4	5	5			4	4	4	4			( <sup>3</sup> )	( <sup>3</sup> )
1918	4	4	4	4	4	4	5	5	4	3	4	4	4	4				
1919	5	5	5	5	5	5	5	5	5	5	5	5	5	5				
1920	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
1921	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		

## RATES IN EFFECT JANUARY 1, 1922, AND CHANGES TO END OF 1928

NOTE.—During these years the same rates applied to all classes of paper, except where otherwise noted.  
Rates shown on the last date specified remained in force at least to Dec 31, 1928

Bank and date of change	Rate	Bank and date of change	Rate	Bank and date of change	Rate	Bank and date of change	Rate
Boston		Philadelphia		Atlanta—Con		Kansas City	
Jan 1, 1922	4½	Continued		Aug. 13, 1927	3½	Jan 1, 1922	5
June 23, 1922	4	Nov. 20, 1925	4	Feb. 11, 1928	4	Aug. 12, 1922	4½
Feb 23, 1923	5 4½	Sept. 8, 1927	3½	May 26, 1928	4½	July 1, 1921	4
June 12, 1924	3½	Feb. 16, 1928	4	July 14, 1928	5	July 29, 1927	3½
Nov 10, 1925	4	May 17, 1928	4½	Chicago		Feb. 10, 1928	4
Aug 5, 1927	3½	July 26, 1928	5	Jan. 1, 1922	5	June 7, 1928	4½
Feb 8, 1928	4	Cleveland		Mar 25, 1922	4½	Dallas	
Apr 20, 1928	4½	Jan 1, 1922	5	June 14, 1924	4	Jan 1, 1922	5½
July 19, 1928	5	Feb 14, 1922	4½	Sept. 7, 1927	3½	Jan. 9, 1922	5
New York		June 2, 1924	4	Jan 25, 1928	4	July 12, 1922	4½
Jan. 1, 1922	4½	Aug 15, 1924	3½	Apr 20, 1928	4½	July 16, 1924	4
June 22, 1922	4	Nov. 17, 1925	4	July 11, 1928	5	Aug 12, 1927	3½
Feb 23, 1923	4½	Aug 6, 1927	3½	St. Louis:		Feb 8, 1928	4
May 1, 1924	4	Mar. 1, 1928	4	Jan 1, 1922	5	May 7, 1928	4½
June 12, 1924	3½	May 25, 1928	4½	Apr. 6, 1922	4½	San Francisco	
Aug. 8, 1924	3	Aug 1, 1928	5	June 19, 1924	4	Jan. 1, 1922	5
Feb 27, 1925	3½	Richmond		Aug 4, 1927	3½	Jan. 23, 1922	4½
Jan. 8, 1926	4	Jan 1, 1922	5	Feb 21, 1928	4	July 8, 1922	4
Apr 23, 1926	3½	Apr 14, 1922	4½	Apr 23, 1928	4½	Mar. 6, 1923	4½
Aug 13, 1926	4	June 14, 1924	4	July 19, 1928	5	June 10, 1924	4
Aug 5, 1927	3½	Aug 16, 1927	3½	Minneapolis:		Aug. 25, 1924	3½
Feb 3, 1928	4	Jan 27, 1928	4	Jan 1, 1922	5½	Nov. 23, 1925	4
May 18, 1928	4½	Apr. 24, 1928	4½	Jan 11, 1922	5	Sept. 10, 1927	3½
July 13, 1928	5	July 13, 1928	5	Aug 15, 1922	4½	Feb. 4, 1928	4
Philadelphia		Atlanta		Oct. 15, 1924	4	June 2, 1928	4½
Jan. 1, 1922	4½	Jan 1, 1922	5	Sept. 13, 1927	3½		
June 19, 1924	6 3½	Mar 15, 1922	4½	Feb 7, 1928	4		
June 26, 1924	3½	June 18, 1924	4	Apr. 25, 1928	4½		

<sup>1</sup> In March, 1917, the Federal Reserve Board ruled that when the 60-day trade acceptance rate was higher than the 15-day commercial paper rate, trade acceptances maturing within 15 days were to be taken at the lower rate

<sup>2</sup> Commodity rates were established during September and October, 1915, and merged with those for commercial paper of corresponding maturities in November and December, 1917.

<sup>3</sup> Rates for bills maturing within 30 days, 3½ per cent, 31 to 60 days, 4 per cent, 61 to 90 days, 4½ per cent.

<sup>4</sup> Oct. 20, 1917, rate of 3½ per cent for commodity paper maturing within 60 days and 4 per cent for paper maturing after 60 days but within 90 days

<sup>5</sup> Five per cent on 6 to 9 month agricultural and livestock paper from Apr 7, 1923, to June 11, 1924.

<sup>6</sup> Five per cent on 6 to 9 month agricultural and livestock paper from Apr 19, 1923, to June 25, 1924. 4½ per cent on 91 days to 6 months agricultural and livestock paper from June 19 to June 25, 1924.

Source: Federal Reserve Board.

**No. 257.—FEDERAL RESERVE GOLD SETTLEMENT FUND: SUMMARY OF TRANSACTIONS THROUGH THE FUND, 1915 TO 1928**

[All figures in millions and tenths of millions of dollars]

Year	Balance at beginning of period	Daily settlements between Federal reserve banks		Inter-reserve bank transfers	Withdrawals	Deposits	Balance at end of period
		Transit clearings	Federal reserve note clearings				
1915	( <sup>1</sup> )	1,052 6	( <sup>2</sup> )	( <sup>2</sup> )	78 0	155 8	77.8
1916	77 8	5,534 0	( <sup>2</sup> )	( <sup>2</sup> )	231 1	323 1	169.7
1917	169 7	24,319 1	( <sup>2</sup> )	2,643 8	1,235 7	1,377 6	311.6
1918	311 6	45,439 5	( <sup>2</sup> )	4,812 1	1,614 7	1,705 0	401.9
1919	401 9	66,053 4	( <sup>2</sup> )	7,930 9	1,871 9	1,799 7	329.7
1920	329 7	85,074 2	( <sup>2</sup> )	7,551 6	1,658 0	1,685 5	357.3
1921	357 3	64,934 8	( <sup>2</sup> )	3,289 1	2,303 2	2,468 0	522.1
1922	522 1	75,336 0	( <sup>2</sup> )	1,154 0	1,793 0	1,825 3	554.4
1923	554 4	89,614 7	( <sup>2</sup> )	1,039 2	1,764 3	1,781 1	571.1
1924	571 1	97,698 3	( <sup>2</sup> )	919 6	1,921.8	2,080 2	679.5
1925	679 5	108,289 5	( <sup>2</sup> )	909 0	1,779 0	1,788 6	689.2
1926	689 2	115,455 3	635 8	1,043 4	3,029 2	3,005 3	665.3
1927	665 3	123,031 5	673 2	1,436 7	3,797 3	3,660 3	528.2
1928	528 2	132,525 2	668 4	1,172 6	2,855 6	3,014 4	687.0

<sup>1</sup> Established May 20, 1915

<sup>2</sup> Included in transit clearings

Source. Federal Reserve Board

**No. 258.—FEDERAL RESERVE GOLD SETTLEMENT FUND: SUMMARY OF TRANSACTIONS THROUGH THE FUND, BY DISTRICTS, 1928**

[All figures in millions and tenths of millions of dollars]

Federal reserve bank	Daily settlements between Federal reserve banks					Interreserve bank transfers		Withdrawals	Deposits	Balance in fund at close of business Dec 31
	Balance Jan 1	Transit clearings		Federal reserve note clearings						
		Pay-ments	Receipts	Pay-ments	Re-ceipts	Pay-ments	Re-ceipts			
Total.....	528 2	132,525 2	132,525 2	658 4	658 4	1,172 6	1,172 6	2,855 6	3,014 4	687 0
Boston.....	19 9	12,153 7	12,279 2	61 0	50 1	141 7	5 6	125 0	154 1	27.6
New York.....	159 3	42,719 3	42,478 8	122 2	182 1	289 3	735 0	1,113 1	831 1	142.4
Philadelphia.....	37 2	10,006 8	10,157 3	73 1	61 9	106 3	10 1	240 2	194 5	31 6
Cleveland.....	43 4	9,998.2	10,025.0	102 5	49 5	88 5	74.0	92.5	162.2	72.5
Richmond.....	20 8	10,023 5	10,077 5	29 8	43 9	94 5	24.6	103 8	98 7	14.0
Atlanta.....	11 8	4,123 2	4,187 4	39 6	40 4	108 0	8 1	284 9	320 8	12.9
Chicago.....	103 2	18,064 4	18,081 9	103 4	87 2	125 0	83 8	153 0	269 7	180.1
St. Louis.....	18 1	7,150.2	7,029 0	28 1	40 8	8.0	73 7	114 5	171 4	32.3
Minneapolis.....	16 8	2,337 1	2,318 1	19 6	21 6	10 3	27 7	31 0	43 5	29.6
Kansas City.....	27 5	5,700 6	5,585 6	27 6	30 5	15 5	69 2	46 0	128 9	52.0
Dallas.....	14 7	4,349 7	4,433 9	16 4	20 0	61 5	7 9	45 5	30 1	33.5
San Francisco.....	55 3	5,898 6	5,871.5	35 3	30 3	124 0	53 0	506 1	609 5	55.6

Source: Federal Reserve Board

## No. 259.—FEDERAL RESERVE AGENTS' GOLD FUND: SUMMARY OF TRANSACTIONS

[All figures in millions and tenths of millions of dollars]

Federal reserve agent at—	Balance Jan 1	With- drawals	Deposits	Transfers to bank	Transfers from bank	Balance Dec 31
<b>All F. R. banks:</b>						
1918.....	496 6	103 6	35 0	1,011.8	1,512 3	928.5
1919.....	928 5	1,011 4	165 0	675.4	1,479 6	886.3
1920.....	886 3	1,060.7	451 4	498 6	1,118.3	896 7
1921.....	896 7	1,598.5	1,023 9	587 4	1,651.2	1,394 9
1922.....	1,394 9	924 0	492 9	604 5	1,326 8	1,681.1
1923.....	1,681 1	755 0	148 5	565 7	1,140 0	1,648 9
1924.....	1,648 9	626 0	149 5	1,022.8	1,158 3	1,307 9
1925.....	1,307 9	559.8	126 0	975 6	1,061 7	960 2
1926.....	960 2	568.2	112 3	1,799 4	2,258 5	963 4
1927.....	963.4	454 2	63 3	2,468 4	2,914 3	1,028 3
1928.....	1,028 3	473 6	70 5	1,681.4	1,768 1	761 9
Boston.....	74 0	110 0	54 0	90 0	125 0	73 0
New York.....	95 0	-----	-----	355.0	255 0	5 0
Philadelphia.....	65 8	145 0	-----	57.2	238 2	101 8
Cleveland.....	125 0	-----	-----	90.0	20 0	55 0
Richmond.....	-----	32 5	2 0	-----	74 5	44 0
Atlanta.....	121 0	73 6	-----	271.3	244 4	60 2
Chicago.....	245.0	4 0	-----	120 0	90 0	211.0
St. Louis.....	31 5	35 0	2 0	89.0	110 5	26 0
Minneapolis.....	33 0	6 0	-----	18.0	22 0	31.0
Kansas City.....	55 9	38 0	12 0	22.5	46 0	53 4
Dallas.....	13 5	15 5	5	16.0	24 5	7 0
San Francisco.....	168 7	14 0	-----	502.4	468 0	120 3

## No. 260.—FEDERAL RESERVE BANKS: OPERATIONS OF BRANCHES

[All figures in thousands of dollars]

Federal reserve branch and year		Bills dis- counted and bought	Currency and coin re- ceived and counted	Checks handled	Nongash collection items handled		Transfers of funds	Fiscal agency— issues, redemptions, and exchanges of U. S. securities
					Government coupons	All other		
All branches:								
1920.....	6,836,678	11,616,708	37,560,687	(2)	(2)	(2)	-----	-----
1921.....	5,742,170	11,804,902	30,841,136	(2)	(2)	(2)	-----	-----
1922.....	2,941,917	11,815,877	32,160,339	(2)	(2)	(2)	-----	-----
1923.....	4,315,501	2,459,946	53,197,150	107,134	1,069,929	13,281,545	-----	415,246
1924.....	2,104,790	2,495,451	54,763,840	99,927	975,142	15,963,121	-----	221,225
1925.....	3,594,053	2,649,136	60,989,227	94,754	1,023,203	18,510,551	-----	195,249
1926.....	4,496,314	2,879,738	64,716,081	89,637	1,133,245	20,210,569	-----	183,946
1927.....	4,071,580	2,809,240	64,724,395	79,933	1,150,370	22,240,987	-----	384,349
1928.....	7,524,192	2,966,956	68,273,068	78,584	1,227,049	25,780,961	-----	324,800
No 2 Buffalo.....	1,042,837	259,469	3,306,423	1,288	87,817	1,815,780	-----	5,556
No 4 Cincinnati.....	-----	140,963	6,573,872	14,397	57,142	633,238	-----	46,919
Pittsburgh.....	-----	369,830	11,066,723	16,499	50,268	983,635	-----	71,273
No 5 Baltimore.....	1,244,375	280,503	4,294,471	6,910	129,536	1,279,219	-----	54,243
Charlotte.....	-----	47,964	1,691,921	256	29,840	1,187,774	-----	-----
No 6 Birmingham.....	-----	62,425	1,908,994	252	20,468	122,178	-----	818
Jacksonville.....	-----	85,128	1,956,382	668	23,583	218,193	-----	-----
Nashville.....	-----	50,416	1,874,360	429	50,161	183,935	-----	8
New Orleans.....	487,812	113,742	1,998,347	2,125	28,649	650,567	-----	55,680
No 7 Detroit.....	1,676,702	557,646	7,781,263	8,496	155,759	4,650,833	-----	22,001
No 8 Little Rock.....	199,146	40,256	999,983	397	29,008	425,241	-----	1,167
Louisville.....	1,094,779	109,445	2,710,932	3,568	39,010	679,486	-----	11,006
Memphis.....	85,126	86,452	1,240,175	757	51,082	746,771	-----	3,188
No 9 Helena.....	2,542	14,663	477,130	495	9,045	185,280	-----	1
No 10 Denver.....	302,192	51,550	2,112,788	3,974	45,794	840,519	-----	7,110
Oklahoma City.....	-----	35,003	2,439,097	958	47,276	290,721	-----	1,780
Omaha.....	157,355	40,393	1,740,003	1,811	66,816	1,292,937	-----	3,734
No 11 El Paso.....	11,977	26,394	441,204	401	10,578	225,146	-----	457
Houston.....	146,774	47,156	1,682,186	995	58,700	1,638,733	-----	1,877
San Antonio.....	20,783	41,570	1,051,752	574	17,363	421,228	-----	836
No 12 Los Angeles.....	154,264	315,362	5,496,732	6,605	69,877	4,704,001	-----	20,438
Portland.....	121,777	56,312	1,524,065	2,556	48,820	696,841	-----	5,937
Salt Lake City.....	155,026	32,228	1,094,194	1,157	41,340	575,991	-----	2,197
Seattle.....	600,608	86,603	1,279,738	2,176	41,556	1,091,682	-----	5,590
Spokane.....	20,117	15,423	630,331	720	17,261	241,032	-----	2,394

¹ Represent currency and coin received from member and nonmember banks only.

² Not available

Source of Tables 259 and 260 Federal Reserve Board.

## No. 261.—FEDERAL RESERVE BANKS: VOLUME OF OPERATIONS IN PRINCIPAL DEPARTMENTS

[Number of pieces handled in thousands; amounts handled in millions and tenths of millions of dollars]

Bank and year	Bills dis- counted	Bills pur- chased in open market for own account	Currency received and counted	Coin received and counted	Checks handled	Collection items handled		U S se- curities— redemp- tions, and exchanges by fiscal agent de- partment	Trans- fers of funds
						U S Government cou- pons paid	All other		
Pieces handled									
All F. R. banks:									
1923.....	782	179	1,722,877	2,076,075	697,502	64,662	5,732	114,409	1,413
1924.....	583	143	1,838,279	2,186,737	742,878	50,471	6,113	16,097	1,503
1925.....	475	201	1,947,419	2,329,014	778,686	44,174	5,467	7,116	1,566
1926.....	506	232	2,099,605	2,590,057	822,907	39,678	5,595	4,691	1,710
1927.....	371	254	2,194,608	2,691,184	862,275	37,045	5,909	7,201	1,830
1928.....	443	251	2,270,555	2,929,091	887,997	28,765	6,461	6,682	2,011
Boston.....	66	48	242,602	213,018	86,246	2,191	409	449	62
New York.....	38	96	666,298	1,341,374	177,303	7,602	2,616	1,504	403
Philadelphia.....	41	7	214,881	328,886	68,338	2,545	552	554	117
Cleveland.....	21	14	148,386	175,442	81,761	3,812	386	766	115
Richmond.....	51	6	109,237	133,611	54,570	900	282	232	142
Atlanta.....	60	9	122,280	60,994	31,384	663	155	169	85
Chicago.....	49	22	376,595	279,743	123,365	4,743	702	1,377	337
St. Louis.....	27	2	116,552	154,633	50,887	1,703	270	473	261
Minneapolis.....	24	7	39,464	10,056	24,874	810	296	224	69
Kansas City.....	24	7	59,698	72,308	09,569	1,481	324	440	140
Dallas.....	26	12	51,125	43,351	39,799	493	129	127	127
San Francisco.....	16	22	123,437	115,675	79,901	1,822	340	367	153
Amounts handled									
All F. R. banks:									
1923.....	38,379.9	2,547 0	10,306 4	308 1	207,719 5	761.7	5,900.5	8,433.9	78,867 1
1924.....	15,419 2	2,172 1	10,777.3	293 9	219,832 2	719 8	5,509 1	6,708 3	98,359 0
1925.....	32,562 6	2,961 2	11,557.0	467 7	258,611 3	680 9	6,117 0	5,579 0	109,430 7
1926.....	37,682 1	3,353 3	12,585 0	609.4	272,945 2	644 3	6,219.4	4,971 4	120,909 4
1927.....	31,934 6	4,050 9	12,939 6	791 0	278,399 6	553 7	6,710 3	10,803 0	136,383 9
1928.....	62,413 0	4,240 7	13,815 6	888 6	301,703 8	543 4	7,414.4	9,002 4	148,749 0
Boston.....	4,284 6	748 4	1,527 5	23 6	21,510 5	41 4	797 0	454 2	8,070 3
New York.....	24,791 8	2,018 5	4,347 9	668 1	115,192 0	250 0	2,808 7	3,985 1	55,469 9
Philadelphia.....	4,909 7	139 8	1,220 6	51 2	28,362 0	34 5	587 7	508 1	6,021 5
Cleveland.....	6,058 5	195 4	930 1	16 3	30,222 6	58 8	551 4	578 5	6,932 0
Richmond.....	3,840 1	103 3	545 7	14 9	13,990 1	11 4	288 6	221 2	5,676 5
Atlanta.....	1,326 6	96 9	536 4	8 2	11,975 8	6 1	163 2	236 8	2,296 7
Chicago.....	5,928 1	324 6	2,103 7	38 3	29,077 2	63 6	1,004 8	1,506 8	27,047 8
St. Louis.....	3,002 2	36 2	513 0	16 8	11,780 3	18 8	208 1	326 3	6,283 6
Minneapolis.....	625 4	69 3	208 3	4 0	4,591 8	10 1	146 2	149 6	2,957 4
Kansas City.....	1,359 3	71 7	279 1	13 2	11,523 6	18 1	300 2	289 6	6,501 9
Dallas.....	737 7	114 7	223 3	7 4	8,341 5	5 6	218 3	268 8	5,092 0
San Francisco.....	5,488 8	322 0	880 1	26 5	15,136 4	24 9	340 1	477 4	16,399 4

Source. Federal Reserve Board.



### No. 262.—FEDERAL RESERVE BANKS: AVERAGE ANNUAL RATE OF EARNINGS ON BILLS AND SECURITIES

NOTE.—Rate on "All classes" covers, besides classes specified, earnings on a small amount of municipal warrants, Federal intermediate credit bank debentures, and foreign loans on gold

Bank and year	Average annual rate (per cent) on—				Bank and year	Average annual rate (per cent) on—			
	All classes	Dis-counted bills	Pur-chased bills	U. S. securi-ties		All classes	Dis-counted bills	Pur-chased bills	U. S. securi-ties
<b>All banks:</b>					<b>Richmond:</b>				
1918.....	4 12	4 24	4 14	2 99	1926.....	3 84	4 00	3 55	3 34
1919.....	4 04	4 23	4 30	2 26	1927.....	3 53	3 83	3 39	3 21
1920.....	5 50	5 88	5 66	2 21	1928.....	4 30	4 60	3 92	3 17
1921.....	5 61	6 07	5 70	2 37	<b>Atlanta:</b>				
1922.....	4 11	4 63	3 54	3 67	1926.....	3 80	4 00	3 55	3 62
1923.....	4 33	4 16	4 14	4 01	1927.....	3 73	3 85	3 67	3 33
1924.....	3 83	4 25	3 31	3 67	1928.....	4 36	4 55	4 11	3 49
1925.....	3 51	3 67	3 17	3 56	<b>Chicago:</b>				
1926.....	3 76	3 95	3 55	3 60	1926.....	3 82	4 00	3 54	3 73
1927.....	3 60	3 83	3 49	3 41	1927.....	3 65	3 90	3 46	3 55
1928.....	4 24	4 56	3 97	3 64	1928.....	4 31	4 07	3 81	3 76
<b>Boston</b>					<b>St. Louis</b>				
1926.....	3 73	4 00	3 54	3 43	1926.....	3 78	4 00	3 32	3 58
1927.....	3 59	3 80	3 51	3 32	1927.....	3 57	3 82	3 56	3 49
1928.....	4 20	4 57	3 92	3 47	1928.....	4 26	4 60	3 83	3 66
<b>New York:</b>					<b>Minneapolis:</b>				
1926.....	3 70	3 82	3 58	3 51	1926.....	3 79	4 00	3 55	3 85
1927.....	3 57	3 79	3 48	3 34	1927.....	3 58	3 94	3 41	3 38
1928.....	4 36	4 61	4 03	3 80	1928.....	4 00	4 38	3 97	3 74
<b>Philadelphia.</b>					<b>Kansas City:</b>				
1926.....	3 82	4 00	3 56	3 58	1926.....	3 73	4 00	3 55	3 67
1927.....	3 61	3 86	3 46	3 32	1927.....	3 58	3 83	3 51	3 51
1928.....	4 20	4 59	3 81	3 46	1928.....	4 01	4 29	4 01	3 69
<b>Cleveland.</b>					<b>Dallas:</b>				
1926.....	3 79	4 00	3 56	3 60	1926.....	3 70	4 00	3 55	3 61
1927.....	3 59	3 81	3 52	3 41	1927.....	3 50	3 81	3 52	3 42
1928.....	4 13	4 50	4 01	3 51	1928.....	4 00	4 40	4 06	3 60
					<b>San Francisco:</b>				
					1926.....	3 72	4 00	3 55	3 53
					1927.....	3 61	3 87	3 60	3 35
					1928.....	4 06	4 28	4 05	3 50

### No. 263.—FEDERAL RESERVE BANKS: PROFIT AND LOSS ACCOUNT

[All figures in thousands of dollars]

Bank and year	Gross earnings	Net earnings available for dividends, franchise tax, and surplus	Dividend payments	Franchise tax to Government	Carried to surplus	Capital and surplus Dec. 31
<b>All Federal reserve banks:</b>						
1918.....	67,584	52,716	5,541	-----	48,334	103,505
1919.....	102,381	78,368	5,012	2,704	70,652	207,627
1920.....	181,297	149,295	5,654	60,725	82,916	301,857
1921.....	122,866	82,087	6,120	59,974	15,903	318,688
1922.....	50,499	16,498	6,307	10,851	1,600	325,640
1923.....	50,709	12,711	6,553	3,613	2,548	331,060
1924.....	38,340	3,718	6,682	114	1,072	329,875
1925.....	41,801	9,449	6,916	59	2,474	337,547
1926.....	47,600	16,612	7,329	818	8,464	353,589
1927.....	43,024	13,048	7,754	250	5,044	365,800
1928.....	64,053	32,122	8,458	2,585	21,079	401,834
<b>Boston.....</b>	4,465	2,317	591	-----	1,726	29,775
<b>New York.....</b>	18,483	11,018	2,744	-----	8,275	121,406
<b>Philadelphia.....</b>	5,395	3,283	844	-----	2,439	38,637
<b>Cleveland.....</b>	6,251	3,181	857	-----	2,324	40,764
<b>Richmond.....</b>	2,858	1,119	371	673	75	18,553
<b>Atlanta.....</b>	3,678	1,694	312	823	558	15,785
<b>Chicago.....</b>	8,936	4,763	1,100	-----	3,664	54,920
<b>St. Louis.....</b>	2,902	785	322	40	423	16,228
<b>Minneapolis.....</b>	1,710	615	181	390	43	10,661
<b>Kansas City.....</b>	2,598	660	253	366	41	12,819
<b>Dallas.....</b>	2,120	713	259	292	163	13,019
<b>San Francisco.....</b>	4,757	1,974	626	-----	1,349	28,846

<sup>1</sup> Withdrawn from surplus account.

Source of Tables 262 and 263: Federal Reserve Board.

# No. 264.—FEDERAL RESERVE BANKS: CLEARING OPERATIONS AND NUMBER OF BANKS ON PAR LIST

NOTE.—Banks on the par list include all member banks and those nonmember banks which remit for checks received from the Federal reserve banks at par without deduction of exchange charges. Federal reserve banks receive checks for collection from all member banks and from such nonmember banks as maintain sufficient balances with the Federal reserve banks to offset items in transit held for their account. Clearings of all Federal reserve banks (in millions of dollars). 1919, 136,493, 1920, 156,509, 1921, 119,160; 1922, 150,507, 1923, 196,636, 1924, 209,125; 1925, 247,185

Bank	Total items handled, excluding duplications						Number of banks on par list, De- cember, 1928	
	Number (in millions)			Amount (millions of dollars)				
	1926	1927	1928	1926	1927	1928	Member	Non- member
All F. R. banks.....	759	798	826	261,402	267,452	291,417	8,837	12,643
Boston.....	74	78	83	19,684	20,220	20,766	408	251
New York.....	138	152	160	91,035	98,112	113,114	938	410
Philadelphia.....	59	61	61	23,831	23,684	27,024	778	493
Cleveland.....	70	75	79	27,473	28,781	29,347	816	1,007
Richmond.....	44	46	46	12,297	11,870	12,442	547	627
Atlanta.....	27	27	27	12,262	11,157	10,994	453	315
Chicago.....	105	112	117	26,685	26,464	28,488	1,252	3,570
St. Louis.....	47	49	49	11,188	11,363	11,641	587	1,757
Minneapolis.....	24	23	24	4,001	3,958	4,266	719	672
Kansas City.....	67	67	67	10,767	10,682	10,894	932	2,234
Dallas.....	34	35	37	7,238	7,549	8,053	780	626
San Francisco.....	70	73	75	14,941	13,612	14,419	627	681

Source: Federal Reserve Board

# No. 265.—ALL MEMBER BANKS OF FEDERAL RESERVE SYSTEM: NUMBER, CAPITAL AND SURPLUS, AND TOTAL RESOURCES

NOTE.—All national banks, except those in Alaska and Hawaii, and about 9 per cent in number of the eligible State banks and trust companies are now members of the system

[All amounts in thousands of dollars]

Date	Number of banks			Capital and surplus			Total resources		
	All member banks	National banks	State banks and trust companies	All member banks	National banks	State banks and trust companies	All member banks	National banks	State banks and trust companies
Dec. 31, 1914.....	7,582	7,574	8	1,809,284	1,791,826	17,458	11,443,855	11,351,246	92,608
Dec. 31, 1915.....	7,631	7,600	31	1,828,679	1,792,509	36,170	13,740,825	13,461,185	279,640
Dec. 27, 1916.....	7,614	7,577	37	1,863,169	1,814,347	48,822	15,849,692	15,380,617	469,075
Dec. 31, 1917.....	7,907	7,657	250	2,396,260	1,875,495	520,765	23,649,962	18,539,576	5,110,386
Dec. 31, 1918.....	8,692	7,762	930	2,713,630	1,953,840	759,790	28,245,710	20,635,563	7,710,157
Dec. 31, 1919.....	9,066	7,885	1,181	2,969,560	2,078,359	891,201	33,916,044	23,676,048	10,239,996
Dec. 29, 1920.....	9,606	8,125	1,481	3,325,962	2,290,939	1,035,023	33,079,016	22,789,045	10,289,971
Dec. 31, 1921.....	9,779	8,165	1,614	3,425,296	2,314,633	1,110,663	30,114,136	19,935,224	10,178,912
Dec. 29, 1922.....	9,859	8,220	1,639	3,566,081	2,391,275	1,175,406	33,888,140	21,965,554	11,917,017
Dec. 31, 1923.....	9,774	8,179	1,595	3,644,373	2,392,784	1,251,589	35,238,606	22,395,303	12,843,303
Dec. 31, 1924.....	9,587	8,043	1,544	3,744,967	2,422,256	1,322,711	38,986,867	24,368,991	14,617,876
Dec. 31, 1925.....	9,489	8,048	1,441	3,937,999	2,544,180	1,393,819	41,425,295	25,839,450	15,585,845
Dec. 31, 1926.....	9,260	7,906	1,354	4,158,796	2,626,064	1,532,732	42,029,644	25,669,069	16,360,575
Dec. 31, 1927.....	9,034	7,759	1,275	4,461,800	2,841,192	1,620,608	44,888,140	28,148,557	16,739,583
Dec. 31, 1928.....	8,837	7,629	1,208	4,914,932	3,104,700	1,810,232	48,935,646	30,573,457	18,362,189

Source: Federal Reserve Board.

# **No. 266.—PRINCIPAL ASSETS AND LIABILITIES OF SELECTED REPORTING MEMBER BANKS OF THE FEDERAL RESERVE SYSTEM IN LEADING CITIES**

NOTE.—All money figures in millions of dollars. Owing to the addition of new members to the list of reporting banks during 1919 and 1920, the comparability of the figures is somewhat affected, but since Jan. 1, 1921, the changes have been almost entirely through consolidation of reporting banks

Date	Number of banks	Loans and investments				Net demand deposits	Time deposits	Accommodation at Federal reserve banks
		Total	Loans and discounts	Government securities	Other securities			
1919								
Mar. 28	772	14,486		2,829		10,054	1,684	1,423
June 27	772	14,675		2,189		10,286	1,757	1,351
Sept. 26	776	15,677		2,243		10,839	1,994	1,476
Dec. 26	797	16,521		1,930		11,174	2,302	1,533
1920								
Mar. 26	811	16,819	15,271	1,548		11,496	2,585	2,114
June 25	814	16,932	15,371	1,561		11,347	2,602	1,946
Sept. 24	818	17,140	15,692	1,448		11,161	2,787	2,151
Dec. 31	821	16,750	15,359	1,391		10,942	2,852	2,098
1921								
Mar. 25	823	15,983	12,591	1,343	2,049	10,186	2,932	1,764
June 29	817	15,331	11,884	1,373	2,074	10,046	2,933	1,215
Sept. 28	809	14,957	11,573	1,362	2,022	9,866	2,925	875
Dec. 28	806	14,780	11,220	1,470	2,090	10,174	2,998	698
1922								
Mar. 29	804	14,544	10,842	1,610	2,092	10,309	3,131	268
June 28	798	15,188	10,783	2,100	2,305	11,124	3,380	165
Sept. 27	790	15,454	10,988	2,219	2,247	11,055	3,573	159
Dec. 27	782	16,152	11,329	2,549	2,274	11,255	3,708	370
1923								
Mar. 28	777	16,498	11,784	2,553	2,161	11,082	3,948	475
June 27	774	16,543	11,850	2,535	2,158	11,104	4,000	491
Sept. 26	770	16,422	11,877	2,387	2,158	10,891	4,020	573
Dec. 26	764	16,490	11,934	2,350	2,206	11,034	4,072	575
1924								
Mar. 26	756	16,580	12,065	2,287	2,228	11,171	4,235	253
June 25	748	16,969	12,142	2,313	2,514	11,837	4,414	106
Sept. 24	747	18,008	12,677	2,647	2,684	12,630	4,664	75
Dec. 31	737	18,599	13,068	2,645	2,886	13,254	4,849	154
1925								
Mar. 25	737	18,618	13,140	2,642	2,836	12,588	5,034	218
June 24	733	18,710	13,205	2,554	2,951	12,725	5,188	255
Sept. 30	725	19,272	13,832	2,499	2,941	13,046	5,234	444
Dec. 30	719	19,697	14,235	2,517	2,945	13,261	5,348	555
1926								
Mar. 31	710	19,546	14,052	2,480	3,014	12,901	5,477	420
June 30	702	19,816	14,135	2,512	3,169	13,252	5,650	288
Sept. 29	694	20,029	14,395	2,502	3,132	13,003	5,674	495
Dec. 29	688	20,110	14,569	2,323	3,218	13,082	5,792	511
1927								
Jan. 26	682	19,840	14,246	2,369	3,224	12,902	5,934	197
Feb. 23	676	19,860	14,192	2,383	3,286	12,841	6,013	243
Mar. 30	675	20,370	14,405	2,558	3,408	13,030	6,065	296
Apr. 27	671	20,373	14,400	2,598	3,375	13,065	6,143	286
May 25	669	20,568	14,475	2,643	3,450	13,216	6,204	260
June 24	669	20,863	14,765	2,574	3,524	13,404	6,267	309
July 27	663	20,611	14,564	2,552	3,496	13,258	6,267	234
Aug. 31	662	20,726	14,748	2,503	3,474	13,381	6,320	240
Sept. 28	661	21,106	15,018	2,611	3,478	13,279	6,378	278
Oct. 26	661	21,188	15,077	2,617	3,494	13,430	6,422	254
Nov. 30	660	21,667	15,292	2,803	3,572	14,001	6,531	331
Dec. 28	657	21,820	15,421	2,804	3,595	13,786	6,516	463
1928								
Jan. 25	652	21,769	15,182	3,023	3,564	13,779	6,662	261
Feb. 29	649	21,750	15,175	2,948	3,627	13,727	6,693	355
Mar. 28	649	22,070	15,442	2,988	3,639	13,523	6,816	383
Apr. 25	644	22,338	15,722	3,002	3,615	13,742	6,878	545
May 30	642	22,576	15,893	2,997	3,686	13,628	7,003	737
June 27	640	22,429	15,750	3,017	3,662	13,244	7,004	803
July 25	636	22,219	15,692	2,957	3,570	13,051	6,905	799
Aug. 29	635	22,134	15,729	2,908	3,497	12,871	6,912	787
Sept. 26	633	22,295	15,797	3,032	3,466	13,018	6,923	778
Oct. 31	632	22,499	16,067	3,032	3,400	13,364	6,940	703
Nov. 28	630	22,635	16,260	2,982	3,393	13,460	6,921	762
Dec. 26	626	22,857	16,388	3,056	3,412	13,324	6,942	918

1 Includes all loans and investments except United States securities.

Source Federal Reserve Board.

## No. 267.—ALL MEMBER BANKS OF THE FEDERAL RESERVE SYSTEM: ASSETS AND LIABILITIES, AS OF DECEMBER 31

[All figures except number of banks in millions of dollars]

Call date (Dec 31 except as indicated)	Loans and investments					Cap- ital, sur- plus, and undiv- ided profits <sup>3</sup>	Total <sup>4</sup> deposits	Demand de- posits <sup>1</sup>	Time de- posits <sup>2</sup>	United States de- posits <sup>6</sup>	Due to banks <sup>7</sup>	Net demand plus deposits <sup>4</sup>	Net demand plus Federal reserve deposits <sup>4,5</sup>	Reserve with Federal reserve banks	Bills pay- able and redis- counts	Num- ber of banks
	Total	Loans <sup>1</sup>	Investments													
			Total	U. S. securi- ties	Other securi- ties											
All member banks:																
1917.....	16,806	9,102	4,580	1,759	2,820	2,807	18,628	11,180	3,156	649	3,643	12,487	15,643	1,497	9,783	7,907
1918.....	20,593	9,142	6,368	3,472	2,896	3,220	21,457	13,347	3,834	473	3,904	14,563	18,397	1,655	9,876	8,692
1919.....	24,778	9,185	6,630	3,324	3,306	3,542	26,139	16,030	5,305	648	4,106	16,576	21,881	1,904	9,247	9,066
1920 (Dec 29).....	28,531	19,585	9,973	6,610	3,367	4,190	24,230	14,632	6,188	316	8,084	15,345	21,523	1,763	9,036	9,606
1921.....	23,452	17,384	9,083	6,581	3,507	4,003	23,247	13,630	6,451	306	8,800	14,440	20,900	1,738	1,394	9,779
1922 (Dec. 29).....	26,487	17,990	7,649	6,881	3,768	4,304	27,288	13,689	7,045	462	8,492	16,203	23,848	1,839	724	9,859
1923.....	28,746	18,842	8,603	6,063	4,042	4,824	28,507	16,107	8,051	287	8,512	18,376	25,027	1,900	808	9,774
1924.....	30,884	19,993	8,813	6,874	4,939	5,332	32,384	17,788	8,805	242	8,548	20,260	28,273	2,223	408	9,587
1925.....	31,642	21,996	8,888	7,288	5,160	5,678	34,528	19,072	10,633	304	4,221	18,468	30,913	2,238	733	9,480
1926.....	34,247	22,652	8,990	7,328	5,601	6,944	36,699	18,800	11,440	234	4,064	19,922	32,870	2,210	760	9,260
1927.....	35,684	23,886	10,361	8,978	6,383	8,341	39,075	19,032	12,705	267	4,606	20,105	32,870	2,514	663	9,034
1928.....		25,155	10,529	4,312	6,217	5,899		21,111	13,458	262	4,249	19,944	33,397	2,409	1,102	8,837
New York City:																
1924.....	5,973	4,202	1,771	973	798	916	7,745	5,393	775	29	1,548	5,391	6,106	739	44	66
1925.....	6,315	4,731	1,584	871	713	901	8,008	5,755	783	59	1,472	5,501	6,284	713	172	63
1926.....	6,510	4,895	1,624	800	815	1,082	8,141	5,725	911	50	1,455	5,466	6,377	681	146	60
1927.....	7,460	5,021	1,840	948	892	1,200	8,485	5,542	1,081	61	1,802	6,061	7,142	857	247	59
1928.....	7,951	6,018	1,933	1,094	839	1,553	10,397	7,386	1,268	52	1,691	6,085	7,353	809	390	57
Chicago:																
1924.....	1,499	1,157	342	180	162	228	1,739	979	342	18	400	1,133	1,475	163		24
1925.....	1,560	1,252	308	154	117	219	1,786	1,008	387	15	377	1,151	1,538	150	23	20
1926.....	1,581	1,286	296	110	185	231	1,811	1,016	414	9	371	1,158	1,572	154	8	22
1927.....	1,810	1,394	416	181	235	268	2,009	1,128	520	10	352	1,261	1,781	179	16	22
1928.....	1,910	1,519	391	174	217	300	2,068	1,166	558	6	337	1,210	1,768	169	66	18
Other reserve cities:																
1924.....	9,908	7,106	2,802	1,339	1,463	1,510	11,281	5,648	3,435	146	2,052	6,158	9,593	726	131	549
1925.....	10,728	7,842	2,886	1,319	1,567	1,538	11,958	6,115	3,837	177	1,828	6,409	10,246	746	265	549
1926.....	11,021	8,165	2,855	1,363	1,492	1,627	12,029	5,999	4,183	132	1,740	6,257	10,414	749	242	540
1927.....	11,904	8,462	3,442	1,547	1,895	1,708	12,925	6,161	4,602	147	1,925	6,598	11,291	815	211	533
1928.....	12,156	8,762	3,454	1,662	1,791	1,888	13,044	6,312	4,832	153	1,747	6,447	11,279	779	376	517
Country banks:																
1924.....	11,366	7,467	3,896	1,352	2,517	1,878	11,619	5,768	5,282	50	549	5,786	11,088	599	294	8,948
1925.....	12,281	8,171	4,110	1,385	2,725	1,980	12,438	6,136	5,647	53	544	6,198	11,845	629	272	8,857
1926.....	12,521	8,305	4,215	1,288	2,928	2,004	12,548	6,060	5,957	42	488	6,041	11,998	626	294	8,638
1927.....	13,073	8,410	4,663	1,302	3,361	2,075	13,249	6,201	6,474	60	526	6,184	12,655	664	190	8,420
1928.....	13,687	8,915	4,751	1,362	3,370	2,138	13,566	6,247	6,794	50	473	6,202	12,996	632	330	8,245

All member banks by districts:																	FEDERAL RESERVE SYSTEM
Boston—																	
1927.....	2,583	1,765	817	268	550	120	395	2,651	1,448	974	22	208	1,480	2,454	156	32	413
1928.....	2,571	1,824	747	235	511	106	429	2,581	1,435	953	9	183	1,428	2,381	145	76	408
New York—																	
1927.....	10,947	7,789	3,153	1,213	1,946	249	1,703	11,944	7,108	2,837	76	1,923	7,629	10,466	1,038	314	937
1928.....	11,593	8,404	3,188	1,353	1,835	234	2,064	13,939	8,931	3,145	63	1,800	7,613	10,758	981	449	938
Philadelphia—																	
1927.....	2,588	1,616	972	234	738	131	542	2,469	1,168	1,055	21	225	1,200	2,255	142	73	777
1928.....	2,666	1,745	921	231	690	126	579	2,488	1,180	1,061	16	201	1,171	2,263	136	99	778
Cleveland—																	
1927.....	3,296	2,162	1,135	412	723	184	550	3,304	1,400	1,544	24	275	1,523	3,067	181	68	835
1928.....	3,414	2,291	1,128	424	699	181	570	3,401	1,498	1,643	24	237	1,490	3,133	185	105	816
Richmond—																	
1927.....	1,362	1,028	334	139	195	124	239	1,415	627	599	16	172	654	1,253	76	32	564
1928.....	1,338	1,022	317	130	187	104	238	1,355	602	596	16	141	614	1,210	68	49	547
Atlanta—																	
1927.....	1,165	888	270	125	152	159	193	1,288	624	463	17	184	650	1,113	73	34	464
1928.....	1,188	895	293	135	158	144	200	1,254	609	467	17	161	626	1,092	64	52	453
Chicago—																	
1927.....	4,859	3,519	1,399	503	836	329	710	5,213	2,484	2,140	25	564	2,642	4,732	349	68	1,290
1928.....	5,163	3,812	1,350	536	815	345	755	5,458	2,638	2,257	19	544	2,681	4,938	343	164	1,252
St. Louis—																	
1927.....	1,377	953	423	146	277	129	209	1,451	716	526	9	201	776	1,301	89	21	594
1928.....	1,406	954	452	161	290	118	213	1,441	711	538	7	185	757	1,295	85	39	587
Minneapolis—																	
1927.....	897	547	350	137	213	127	115	1,011	429	452	6	125	490	912	54	3	735
1928.....	933	560	373	147	226	117	118	1,042	444	480	6	113	465	945	55	5	719
Kansas City—																	
1927.....	1,191	783	408	184	225	224	157	1,456	837	339	9	272	907	1,246	95	10	963
1928.....	1,250	803	447	212	235	225	160	1,505	867	365	10	264	917	1,281	91	22	932
Dallas—																	
1927.....	898	604	204	132	72	171	160	1,068	699	184	14	171	732	916	73	1	799
1928.....	903	736	257	174	84	165	163	1,155	743	223	22	166	763	986	74	12	790
San Francisco—																	
1927.....	3,084	2,141	943	486	457	264	308	3,399	1,432	1,653	28	280	1,449	3,102	188	7	655
1928.....	3,169	2,109	1,060	574	486	258	400	3,454	1,453	1,695	52	254	1,419	3,115	183	39	627

<sup>1</sup> Includes rediscounts and overdrafts; excludes acceptances of other banks and bills of exchange sold with indorsement

<sup>2</sup> Does not include items with Federal reserve banks in process of collection or amounts due from foreign banks or own foreign branches

<sup>3</sup> Includes reserves for dividends, contingencies, etc., but excludes, beginning 1927, reserves for interest, taxes, and other expenses accrued and unpaid

<sup>4</sup> "Demand deposits" and "Net demand deposits" revised to include letters of credit and travelers' checks sold for cash, beginning 1918, "Due to banks" revised to include amounts due to own foreign branches, beginning 1927

<sup>5</sup> Includes certified and cashiers' or treasurers' checks, and letters of credit and travelers' checks sold for cash

<sup>6</sup> Includes postal-savings deposits

<sup>7</sup> Includes amounts due to Federal reserve banks, foreign banks, and other banks and bankers, also amounts due to own foreign branches beginning 1927.

<sup>8</sup> Deposits subject to reserve requirements

<sup>9</sup> Includes small amounts of bills sold with indorsement

<sup>10</sup> Excludes customers' liability on letters of credit for State bank members

Source: Federal Reserve Board.

**No. 268.—ALL MEMBER BANKS OF THE FEDERAL RESERVE SYSTEM: LOANS AND INVESTMENTS, BY CLASSES, JUNE 30**

NOTE.—Figures exclude acceptances of other banks and bills of exchange or draft sold with indorsement  
[All figures, except number of banks, in millions of dollars]

	All member banks				1928				
	1925	1926	1927	1928	Central reserve city banks	Other reserve city banks	Country banks	National bank members	State bank, etc., members
Number of banks.....	9,538	9,375	9,099	8,929	74	530	8,325	7,685	1,244
Loans, total.....	20,655	22,080	22,938	24,303	6,889	8,657	8,757	14,921	9,382
Loans on securities, total.....	6,718	7,321	8,156	9,068	3,610	3,213	2,245	5,111	3,957
Secured by U. S. Government obligations.....	243	207	181	178	63	72	44	108	70
Secured by other stocks and bonds.....	6,474	7,114	7,975	8,890	3,547	3,141	2,201	5,003	3,887
All other loans, total.....	13,937	14,740	14,782	15,235	3,279	5,444	6,512	9,810	5,425
Secured by real estate.....	2,338	2,650	2,926	3,068	170	1,515	1,384	1,285	1,783
Farm lands.....		489	478	444	3	135	306	325	119
Other real estate.....		2,161	2,449	2,624	167	1,380	1,077	960	1,664
Otherwise secured and unsecured.....	11,599	12,090	11,856	12,167	3,109	3,930	5,128	8,525	3,642
Securities, total.....	8,863	9,123	9,818	10,758	2,458	3,535	4,765	7,141	3,617
Domestic securities, total.....	8,362	8,625	9,246	10,032	2,335	3,352	4,345	6,592	3,440
U. S. Government securities.....	3,781	3,744	3,796	4,225	1,314	1,599	1,312	2,889	1,336
State, county, and municipal bonds.....	1,029	1,149	1,277	1,367	277	504	586	839	528
All other bonds.....	2,781	2,948	3,343	3,512	485	917	2,110	2,451	1,061
Stock of Federal reserve banks.....	115	123	129	142	40	47	54	91	51
Stock of other corporations.....	275	327	348	407	95	191	121	105	302
All other domestic securities.....	382	335	352	379	124	94	161	248	161
Foreign securities, total.....	501	498	572	726	123	183	421	549	177
Bonds of foreign governments.....	327	301	316	392	67	95	230	296	96
All other foreign securities, including municipal.....	173	198	256	334	56	88	191	253	81

Source: Federal Reserve Board.

**No. 269.—ALL REPORTING BANKS: NUMBER, RESOURCES, CAPITAL AND SURPLUS, AND DEPOSITS, ON OR ABOUT JUNE 30**

NOTE.—See headnote, Table 272

[All figures, except number of banks, in millions and tenths of millions of dollars]

Year	Number of banks	Total resources	Capital and surplus	Individual deposits	Year	Number of banks	Total resources	Capital and surplus	Individual deposits
1890.....	8,188	6,350.1	1,414.4	4,069.7	1920.....	30,139	53,079.1	5,113.0	37,268.1
1895.....	9,818	7,609.5	1,621.3	4,921.2	1921.....	30,812	49,671.4	5,446.0	34,790.9
1900.....	10,382	10,785.9	1,673.1	7,238.9	1922.....	30,389	50,425.4	5,641.4	37,143.6
1905.....	16,410	16,918.2	2,516.8	11,350.7	1923.....	30,178	54,034.9	5,851.9	39,983.6
1910.....	23,095	22,450.3	3,427.8	14,063.7	1924.....	29,348	57,144.7	6,081.6	42,908.8
1915.....	27,062	27,804.1	3,895.8	18,965.7	1925.....	28,841	62,057.0	6,343.0	46,715.2
1916.....	27,513	32,271.2	4,044.8	22,526.0	1926.....	28,146	64,893.4	6,745.3	48,826.6
1917.....	27,923	37,126.8	4,219.7	22,526.0	1927.....	27,061	68,132.6	7,141.1	51,062.1
1918.....	28,880	40,726.4	4,386.3	27,715.5	1928.....	26,213	71,574.3	7,671.1	53,244.7
1919.....	29,123	47,615.4	4,619.4	32,629.3					

Source: Comptroller of the Currency, Treasury Department

## No. 270.—ALL REPORTING BANKS: SUMMARY, BY STATES, JUNE 30, 1928

[All figures, except number of banks, in thousands of dollars]

Division and State	Number of banks	Total resources or liabilities	Loans and discounts, including re-discounts and overdrafts	Investments (including premiums on bonds)	Lawful reserve with Federal reserve banks or other reserve agents	Capital, surplus, and undivided profits <sup>1</sup>	Individual deposits		
							Demand	Time	Un-classified
Grand total.....	26,213	71,574,323	39,592,474	18,771,814	3,105,840	8,897,412	24,306,651	28,538,109	399,938
Continental U. S.....	28,145	71,229,153	39,410,959	18,730,682	3,105,840	8,845,079	24,212,472	28,447,118	363,235
New England.....	1,103	8,359,308	4,584,608	2,946,899	194,188	862,464	2,272,739	4,648,907	1,094
Maine.....	140	483,033	209,846	218,315	5,470	50,459	78,194	313,073	-----
New Hampshire.....	123	322,925	147,723	153,230	3,591	39,307	39,767	229,622	24
Vermont.....	105	278,620	156,108	95,023	2,700	31,380	29,357	206,521	-----
Massachusetts.....	446	5,261,042	2,936,454	1,778,039	134,523	499,548	1,680,493	2,660,589	-----
Rhode Island.....	37	584,946	285,130	252,271	16,351	61,794	131,294	372,007	-----
Connecticut.....	252	1,428,742	849,545	450,021	31,553	179,976	313,634	867,095	1,070
Middle Atlantic.....	3,346	29,691,981	16,243,358	8,009,614	1,428,463	3,961,273	9,696,982	11,274,613	16,128
New York.....	1,146	20,043,236	11,319,235	4,732,107	1,049,444	2,431,610	6,715,082	7,137,503	14,051
New Jersey.....	572	2,813,501	1,607,401	844,507	75,873	356,295	883,651	1,355,637	2,077
Pennsylvania.....	1,628	6,835,244	3,316,722	2,433,000	303,140	1,173,368	2,098,246	2,781,473	-----
East North Central.....	5,646	13,041,767	7,156,757	3,317,684	708,596	1,545,158	4,739,071	5,169,685	4,965
Ohio.....	1,051	3,377,038	2,017,090	764,229	216,631	391,449	1,096,768	1,540,608	-----
Indiana.....	1,028	1,221,263	602,639	227,655	20,514	145,176	216,258	417,173	-----
Illinois.....	1,816	4,897,094	2,835,995	1,033,655	210,050	614,915	2,007,174	1,624,184	-----
Michigan.....	784	2,407,855	988,568	976,376	175,227	269,411	842,623	1,051,709	1,096
Wisconsin.....	967	1,138,517	642,565	295,740	84,165	124,207	376,238	535,904	3,869
West North Central.....	6,790	5,215,567	2,813,299	1,247,156	187,107	602,064	3,070,127	1,919,558	2,426
Minnesota.....	1,134	1,149,707	539,025	387,661	33,922	114,417	365,435	534,918	-----
New York.....	1,372	1,019,438	597,933	203,169	21,470	113,629	320,714	497,979	2,426
Missouri.....	1,365	1,018,488	884,261	385,726	37,814	216,318	742,248	415,528	-----
North Dakota.....	489	162,314	91,114	34,165	12,047	17,794	56,365	77,719	-----
South Dakota.....	412	179,294	94,278	37,374	3,579	18,132	77,559	70,511	-----
Nebraska.....	904	542,784	308,306	90,338	14,212	62,502	220,254	192,212	-----
Kansas.....	1,114	543,602	298,382	108,723	14,045	69,294	287,561	130,691	-----
South Atlantic.....	2,701	4,320,539	2,586,277	902,612	167,423	651,889	1,443,622	1,685,191	6,013
Delaware.....	61	184,238	92,609	51,430	6,397	30,501	62,410	59,975	1,315
Maryland.....	238	967,568	485,511	336,079	42,106	133,627	255,349	502,930	-----
Dist. of Col.....	42	326,438	190,389	64,106	9,404	51,572	140,092	98,007	-----
Virginia.....	494	689,890	403,091	95,157	15,033	112,806	155,552	238,568	-----
West Virginia.....	330	442,275	294,911	67,893	7,706	73,216	153,982	171,938	-----
North Carolina.....	518	519,691	353,869	67,112	40,287	73,608	190,283	168,802	-----
South Carolina.....	262	245,039	147,581	48,375	4,653	33,660	81,576	104,192	-----
Georgia.....	454	478,259	312,789	58,795	30,533	80,458	163,350	157,636	-----
Florida.....	302	487,141	235,527	122,472	11,304	62,441	193,048	163,143	4,698
East South Central.....	1,791	1,839,373	1,148,965	302,638	42,042	250,100	595,215	495,980	250,438
Kentucky.....	583	633,454	391,408	127,163	13,406	58,218	113,070	92,189	250,438
Tennessee.....	507	549,357	343,764	63,866	12,157	70,666	219,375	185,655	-----
Alabama.....	337	372,936	243,700	57,958	12,393	59,917	151,983	115,373	-----
Mississippi.....	344	283,626	170,093	53,651	4,086	31,299	110,787	102,763	-----
West South Central.....	2,720	2,748,130	1,560,750	487,928	177,864	343,887	1,345,527	542,368	81,292
Arkansas.....	437	269,065	167,634	37,126	29,637	36,377	123,189	75,139	-----
Louisiana.....	229	535,139	330,944	71,401	19,040	60,842	231,624	133,431	-----
Oklahoma.....	668	532,038	255,208	140,108	25,262	48,168	235,694	103,475	78,674
Texas.....	1,396	1,411,888	790,964	239,293	103,925	198,480	755,020	230,323	2,618
Mountain.....	957	1,099,414	570,417	279,616	48,564	111,271	482,425	392,420	879
Montana.....	203	191,027	94,536	53,079	4,619	18,770	85,096	74,170	-----
Idaho.....	140	105,716	48,000	31,015	3,107	10,346	31,658	34,062	-----
Wyoming.....	80	73,002	39,011	16,322	2,003	7,934	34,230	24,980	-----
Colorado.....	285	347,474	165,823	100,246	25,819	35,160	162,105	118,913	-----
New Mexico.....	58	48,214	23,789	13,655	1,875	4,899	28,997	10,561	-----
Arizona.....	45	98,090	51,091	24,094	5,552	9,226	48,787	34,965	68
Utah.....	105	186,822	119,427	32,682	5,708	19,720	53,846	73,145	811
Nevada.....	35	49,069	25,740	8,523	881	5,216	17,686	21,654	-----
Pacific.....	1,091	4,913,074	2,756,830	1,236,555	202,593	516,973	1,568,764	2,318,414	-----
Washington.....	392	553,348	275,616	163,450	38,211	52,857	225,544	214,524	-----
Oregon.....	243	336,547	147,572	114,626	22,321	35,946	146,897	123,512	-----
California.....	496	4,023,179	2,333,142	958,479	142,061	428,170	1,194,323	1,980,382	-----
Alaska.....	17	14,133	5,918	4,821	-----	1,681	6,243	5,480	-----
Hawaii.....	23	115,262	60,691	25,291	-----	16,881	44,318	40,381	1,146
Porto Rico.....	16	67,293	47,382	3,968	-----	11,832	20,659	18,016	-----
Philippines.....	12	148,487	67,524	7,032	-----	21,939	22,929	27,110	35,557

<sup>1</sup> Less expenses and taxes paid

Source Comptroller of the Currency, Treasury Department.

**No. 271.—ALL REPORTING BANKS IN CONTINENTAL UNITED STATES:  
PRINCIPAL RESOURCES AND LIABILITIES, BY STATES, DECEMBER 31<sup>1</sup>**

[All figures, except number of banks, in millions and tenths of millions of dollars]

State	Number of reporting banks		Loans <sup>2</sup>		Investments		Deposits, exclusive of bank deposits <sup>3</sup>		Rediscounts and bills payable	
	1927	1928	1927	1928	1927	1928	1927	1928	1927	1928
United States.....	26,416	25,576	38,407.1	40,762.7	17,043.4	17,503.7	52,909.1	56,765.6	893.5	1,512.2
New England.....	1,084	1,082	4,156.1	4,421.2	2,487.9	2,527.8	6,268.9	6,504.3	43.0	97.3
Maine.....	142	136	194.5	214.0	217.0	213.3	389.3	396.3	3.2	8.6
New Hampshire.....	123	124	140.0	149.3	143.6	153.5	259.7	275.0	1.3	2.9
Vermont.....	105	105	151.6	158.8	87.7	95.2	230.8	242.0	1.5	3.6
Massachusetts.....	444	448	2,691.0	2,844.7	1,268.9	1,280.1	3,729.1	3,871.6	29.7	60.9
Rhode Island.....	37	34	276.5	290.0	248.6	247.2	508.5	507.3	3.3	6.8
Connecticut.....	233	235	702.5	764.4	522.1	538.2	1,161.5	1,214.1	7.0	14.5
Middle Atlantic.....	3,350	3,332	15,530.2	17,014.8	7,668.9	7,628.4	21,361.6	24,078.4	474.6	736.3
New York.....	1,152	1,145	10,787.7	11,931.6	4,502.7	4,506.4	14,187.9	16,703.9	303.0	478.9
New Jersey.....	875	870	1,535.8	1,650.1	815.7	813.1	2,257.4	2,325.9	33.7	78.7
Pennsylvania.....	1,023	1,017	3,206.7	3,433.1	2,350.5	2,308.9	4,916.3	5,048.6	137.9	178.7
East North Central.....	5,681	5,573	7,228.1	7,685.9	2,687.5	2,675.2	9,609.4	10,051.4	165.3	323.2
Ohio.....	1,049	1,035	1,906.2	1,985.6	656.4	677.2	2,467.0	2,555.4	40.0	84.9
Indiana.....	1,050	1,005	658.7	664.5	217.2	232.8	840.0	855.6	44.0	54.2
Illinois.....	1,834	1,816	2,714.3	2,902.8	996.1	1,015.5	3,580.5	3,761.3	34.7	92.9
Michigan.....	748	751	1,330.6	1,455.7	530.2	563.8	1,816.8	1,948.8	36.8	62.9
Wisconsin.....	970	966	618.3	657.3	287.6	285.9	905.1	930.3	9.8	28.3
West North Central.....	7,026	6,817	2,955.9	2,886.1	1,089.5	1,183.4	4,071.0	4,095.3	57.5	85.8
Minnesota.....	1,163	1,100	549.9	538.3	372.5	377.0	895.1	903.5	7.9	9.1
Iowa.....	1,355	1,298	678.2	670.8	108.6	120.6	825.4	832.6	10.2	12.4
Missouri.....	1,416	1,356	902.9	881.4	366.9	394.6	1,225.9	1,224.4	22.3	40.8
North Dakota.....	512	470	93.3	88.6	34.7	36.1	144.1	139.2	1.0	.9
South Dakota.....	415	409	93.3	95.8	33.5	40.9	142.1	152.6	1.6	1.2
Nebraska.....	1,012	882	335.3	312.9	75.7	95.1	421.9	411.5	9.1	15.6
Kansas.....	1,153	1,102	303.0	298.3	97.6	119.1	416.5	431.5	5.4	5.8
South Atlantic.....	2,677	2,540	2,562.9	2,541.9	907.4	902.7	3,298.6	3,236.9	74.5	102.6
Delaware.....	49	47	83.2	98.2	53.1	51.2	120.4	136.8	1.2	4.0
Maryland.....	243	237	493.0	502.6	344.6	331.9	794.6	788.7	9.0	14.2
Dist. of Col.....	42	41	176.7	190.8	59.8	62.3	232.2	248.9	2.5	6.3
Virginia.....	496	488	469.8	466.8	90.2	96.8	472.5	471.3	18.6	25.0
West Virginia.....	335	325	299.9	294.4	64.6	66.3	336.2	333.3	13.3	12.1
North Carolina.....	458	441	348.6	349.4	59.4	58.8	413.2	390.2	4.7	17.0
South Carolina.....	271	244	144.4	138.8	45.8	45.7	201.5	195.3	2.0	1.6
Georgia.....	466	434	295.3	287.9	65.3	67.8	342.1	335.3	9.6	13.2
Florida.....	317	283	252.0	213.0	124.6	121.9	385.9	337.1	13.6	9.2
East South Central.....	1,780	1,755	1,144.2	1,132.8	235.1	309.1	1,398.6	1,392.7	28.9	69.6
Kentucky.....	587	579	395.5	416.5	118.4	130.1	435.3	456.3	10.9	30.6
Tennessee.....	512	498	344.7	348.3	56.0	64.7	411.2	408.2	7.9	16.2
Alabama.....	356	357	231.7	251.2	57.9	60.9	298.2	290.7	4.5	17.8
Mississippi.....	325	321	172.3	166.8	52.8	53.4	241.9	237.5	5.6	5.0
West South Central.....	2,749	2,671	1,542.2	1,587.1	457.9	555.3	2,076.6	2,208.2	27.9	33.6
Arkansas.....	447	437	166.7	160.2	32.7	42.2	212.7	215.6	2.3	1.2
Louisiana.....	232	228	336.1	340.1	77.0	89.3	406.0	415.9	21.5	18.7
Oklahoma.....	679	661	246.0	255.4	133.6	149.4	419.8	444.4	1.4	1.0
Texas.....	1,391	1,345	793.4	831.4	214.6	274.4	1,038.1	1,132.3	2.7	12.7
Mountain.....	974	954	556.7	594.8	271.2	300.0	903.5	961.3	3.4	5.7
Montana.....	205	201	88.1	100.1	52.8	58.8	160.4	175.7	1.1	2.2
Idaho.....	143	139	48.6	49.5	29.7	32.7	91.7	93.5	3.3	.2
Wyoming.....	86	86	38.4	40.3	16.2	19.4	61.2	66.4	.1	1.1
Colorado.....	293	284	164.3	173.6	99.9	99.0	289.7	298.5	1.4	3.7
New Mexico.....	59	58	22.8	26.2	12.6	14.9	42.5	47.0	-----	-----
Arizona.....	46	46	44.2	51.8	22.2	29.5	81.4	94.9	.8	6
Utah.....	107	105	122.5	123.5	29.7	36.6	136.7	142.6	.7	9
Nevada.....	35	35	27.8	29.8	8.1	9.1	39.9	42.7	-----	-----
Pacific.....	1,115	1,052	2,730.7	2,868.3	1,188.0	1,321.6	3,933.1	4,237.1	18.9	57.7
Washington.....	357	351	262.5	278.5	160.6	170.1	439.5	463.3	1.2	2.8
Oregon.....	247	242	149.6	145.7	111.1	117.4	275.5	279.2	1.5	1.8
California.....	511	459	2,318.6	2,444.1	916.3	1,034.1	3,218.1	3,494.6	16.2	53.1

<sup>1</sup> Date of reports of member banks of the Federal reserve system; figures for nonmember banks are from reports of nearest available date.

<sup>2</sup> Includes rediscounts and overdrafts, excludes acceptances of other banks and bills of exchange sold with indorsement.

<sup>3</sup> Includes certified and officers' or treasurers' checks and letters of credit and travelers' checks sold for cash.

Source. Federal Reserve Board.



**No. 272.—BANKS: NUMBER, RESOURCES, CAPITAL AND SURPLUS, AND DEPOSITS FOR EACH CLASS OF BANKS**

NOTE.—Banks in Alaska, Hawaii, Porto Rico, and Philippine Islands are included. Data for national banks and in recent years for other classes are as of June 30 or about June 30. In earlier years reports for banks other than national were of various dates. Figures for private banks, which include only those under State supervision and others voluntarily reporting, except for 1880, and for other banks except national for earlier years, especially 1875, 1880, and 1885, are incomplete. For 1910 and 1915, when statistics were compiled from reports from individual banks, and in recent years, the segregation of the classes of banks is fairly accurate. In other years figures for State banks include stock savings banks and loan and trust companies in a number of States, and in some instances private banks. Individual deposits exclude dividends unpaid and, beginning 1910, certified and cashiers' checks; they include postal savings.

[All figures except number of banks, in millions and tenths of millions of dollars.]

Year	Num- ber of banks	Total resources	Capital and surplus	Indi- vidual deposits	Num- ber of banks	Total resources	Capital and surplus	Indi- vidual deposits
National banks					State (commercial) banks			
1830.....					329		1 110 2	
1840.....					901	75 7	1 657 7	
1850.....					824	109 6	1 532 3	
1860.....					1,562	253 8	1 999 9	
1865.....	1,294	1,126.5	357 1	2 398 4				
1870.....	1,612	1,565 8	518 9	542 3				
1875.....	2,076	1,913 2	634.7	686 5	551	272 3	77 9	165 9
1880.....	2,076	2,035 5	574 0	833 7	620	354 9	109 6	208 8
1885.....	2,689	2,421 9	672 8	1,106 4	975	553 6	155 9	314 3
1890.....	3,484	3,061 8	854 7	1,521 7	2,292	877.9	243 5	560.4
1895.....	3,715	3,470 6	906 0	1,736 0	3,774	1,147.5	324 5	712 4
1900.....	3,732	4,944 2	877 8	2,458 1	4,369	1,759.8	328 4	1,266.7
1905.....	5,668	7,327 8	1,205 0	3,783.7	7,794	3,190 9	534.2	2,365 2
1910.....	7,145	9,896 6	1,634 4	5,070 5	12,166	3,695.0	623 4	2,675 4
1915.....	7,605	11,795.7	1,790.6	6,426.2	14,598	4,399.6	725 1	3,231 0
1916.....	7,579	13,926 9	1,797.4	7,529 5	15,450	5,553 0	832.3	4,281 5
1917.....	7,604	16,290.4	1,845 1	9,320 9	15,968	6,799.7	888 7	5,376 2
1918.....	7,705	18,354.9	1,907.7	10,006 4	16,596	7,815 7	962 8	6,090.3
1919.....	7,785	21,234.9	1,990 8	11,565 2	17,225	11,701.6	1,226 6	8,968.5
1920.....	8,030	23,411 3	2,210 7	13,671 8	18,195	14,009 8	1,447 2	10,827 1
1921.....	8,154	20,517 9	2,300 1	12,373 4	18,875	14,199 1	1,642 9	10,664 4
1922.....	8,249	20,706 0	2,356 0	13,220 4	18,232	13,064 4	1,575 4	10,097.9
1923.....	8,241	21,511 8	2,399 5	14,008 7	18,043	14,162 9	1,612 9	11,120 6
1924.....	8,085	22,565.9	2,414 6	14,818 8	17,436	14,816 0	1,604 4	11,745 4
1925.....	8,072	24,350.9	2,488 4	16,320 7	16,983	15,979 2	1,706 7	12,672 8
1926.....	7,978	25,315 6	2,611 8	17,057 1	16,493	16,579.7	1,789 3	13,145 8
1927.....	7,796	26,581 9	2,731 1	18,202 8	15,690	16,565.0	1,814 0	12,923 7
1928.....	7,691	28,508.2	3,013 6	19,300.4	15,078	16,291.0	1,788.7	12,725.1
Loan and trust companies					Private banks			
1875.....	35	122 9	28 8	85 0				
1880.....	30	126 9	24 7	90 0	2,802		1 476 1	4 182 7
1885.....	40	248 4	37 1	188 4				
1890.....	149	503 8	105.3	336 5	1,342	164 0	50 8	101 0
1895.....	242	807 1	173 1	546 7	1,070	130 6	40 4	81 8
1900.....	290	1,330 2	239.6	1,028 2	989	126 8	22 6	96 2
1905.....	683	2,866 0	524 4	1,980 9	1,028	165 2	20 4	127.9
1910.....	1,091	4,216 9	800 1	3,026 0	934	160 0	25 4	124.0
1915.....	1,664	5,873 1	927 5	4,177 8	1,036	177.7	29 0	134.1
1916.....	1,606	7,028.3	984 7	5,180 2	1,014	181.9	23 6	145.3
1917.....	1,608	7,899 8	1,040 3	5,781 3	936	197.9	24 1	161.3
1918.....	1,669	8,317 4	1,068 3	5,954 0	1,091	236 6	28 4	193.1
1919.....	1,377	7,960 0	942 4	5,676 1	1,017	266.1	28 7	216.2
1920.....	1,408	8,320 0	985 7	6,061 9	799	212 6	26 4	169.3
1921.....	1,474	8,181 1	1,053 5	5,601 5	708	175 3	24 0	133.7
1922.....	1,550	8,533 9	1,095.0	6,490 5	673	185.5	25 7	145.2
1923.....	1,643	9,499 3	1,198 1	6,825 3	604	165.5	22 4	131.4
1924.....	1,664	10,323 3	1,293 3	7,779 2	560	150.9	19 8	120.5
1925.....	1,680	11,565 5	1,366 7	8,530.4	523	155 2	19 5	126 2
1926.....	1,656	12,205.2	1,487 2	8,893 4	495	174.2	21 0	131.2
1927.....	1,647	13,994 8	1,678 0	10,074 2	467	164.1	19 3	123.2
1928.....	1,633	15,230.9	1,889.3	10,874 5	404	148.8	16.6	110.6

<sup>1</sup> Capital only.

<sup>2</sup> Individual and other.

<sup>3</sup> In 1921 returns from California, which in 1920 had shown 106 stock savings banks, included all banks except 1 mutual savings bank with State banks, which accounts for part of the increase in State banks and the greater part of the decrease in stock savings banks. In subsequent years returns showed separate statistics for each class of banks.

<sup>4</sup> Average for all private banks for the six months ended May 31, 1880.

No. 272.—BANKS: NUMBER, RESOURCES, ETC., FOR EACH CLASS OF BANKS—  
Continued

Year	Mutual savings banks <sup>5</sup>				Stock savings banks <sup>5</sup>			
	Number of banks	Total resources	Surplus	Individual deposits	Number of banks	Total resources	Capital and surplus	Individual deposits
1880.....	629	881 7	51 2	819 1				
1885.....	646	1,203 0	88 6	1,095 2				
1890.....	637	1,486 6	126 1	1,336 0	284	256 0	34 1	214 0
1895.....	664	1,759 7	136 8	1,597 3	353	267 0	41 3	247 0
1900.....	652	2,336 5	175 8	2,134 5	320	285 4	29 1	255 2
1905.....	668	2,967 3	184 6	2,736 5	369	400 9	30 2	356 5
1910.....	638	3,652 4	249 2	3,360 6	1,121	829 4	95 3	707 2
1915.....	630	4,310 4	289 7	3,950 6	1,529	1,238 7	133 9	1,046 0
1916.....	622	4,547 9	303 3	4,187 9	1,242	1,033 3	103 5	901 6
1917.....	622	4,811 0	321 8	4,422 5	1,185	1,127 0	99 8	996 2
1918.....	625	4,818 6	315 6	4,422 1	1,194	1,183 2	103 6	1,049 5
1919.....	622	5,171 6	333 4	4,761 2	1,097	1,281 3	97 4	1,152 1
1920.....	620	5,619 0	334 5	5,186 8	1,087	1,506 4	108 6	1,351 2
1921.....	623	6,040 1	366 4	5,575 1	978	1,557 9	59 1	1,442 8
1922.....	619	6,351 6	468 2	5,778 9	1,066	1,583 9	121 0	1,401 7
1923.....	618	6,904 8	496 5	6,288 6	1,029	1,790 7	122 5	1,609 0
1924.....	613	7,364 7	558 8	6,693 2	990	1,923 4	130 7	1,746 5
1925.....	611	7,913 0	633 2	7,147 0	972	2,093 1	128 7	1,918 2
1926.....	620	8,422 3	703 0	7,577 5	904	2,196 4	133 0	2,021 5
1927.....	618	9,011 2	782 9	8,076 5	843	1,815 5	115 7	1,681 7
1928.....	616	9,688 2	851 6	8,672 8	791	1,707 2	111 4	1,561 2

<sup>5</sup> Data shown for mutual savings banks, 1880 and 1885, include stock savings banks For deposits in savings banks for earlier years, see Table 284, p. 277

<sup>6</sup> See footnote 3, preceding page

No. 273.—NATIONAL BANKS: PRINCIPAL RESOURCES AND LIABILITIES

NOTE.—All figures, except number of banks, in millions of dollars. Data include banks in Alaska and Hawaii. Loans and discounts include rediscunts and overdrafts; they exclude acceptances and bills of exchange or draft sold with indorsement beginning 1921. Undivided profits include reserves for taxes, interest, etc., accrued prior to 1925. Deposits exclude dividends unpaid and, beginning 1910, certified and cashiers' checks outstanding; they include postal savings

June 30 1—	Number of banks	Loans and discounts	Investments	Capital, surplus, plus, undivided profits	Individual deposits	Note circulation	June 30 1—	Number of banks	Loans and discounts	Investments	Capital, surplus, plus, undivided profits	Individual deposits	Note circulation
1864.....	477	71	93	79	2 119	26	1897...	3,610	1,978	484	963	1,770	197
1865.....	1,294	362	407	380	2 398	131	1898...	3,582	2,164	555	955	2,023	190
1866.....	1,634	550	168	494	533	268	1899...	3,583	2,508	651	947	2,522	199
1867.....	1,636	588	447	512	540	292	1900...	3,732	2,644	774	1,013	2,458	265
1868.....	1,610	656	443	529	576	295	1901...	4,165	2,981	855	1 062	2,942	319
1869.....	1,619	686	416	549	574	293	1902...	4,535	3,247	945	1 184	3,099	309
1870.....	1,612	719	409	562	542	291	1903...	4,949	3,442	1 066	1 286	3,201	359
1871.....	1,723	789	425	594	602	308	1904...	5 331	3,622	1 131	1 319	3,312	400
1872.....	1,853	872	438	626	619	327	1905...	5,668	3,930	1 239	1 407	3,784	446
1873.....	1,968	926	445	662	641	339	1906...	6,053	4,237	1 283	1 494	4,056	511
1874.....	1,953	926	451	676	623	339	1907...	6,429	4,664	1 446	1 608	4,323	548
1875.....	2,076	973	443	687	686	318	1908...	6,824	4,640	1 572	1 673	4,375	614
1876.....	2,061	934	427	679	641	294	1909...	6,926	5,061	1 648	1 748	4,899	641
1877.....	2,078	902	431	665	636	290	1910...	7,145	5,456	1 612	1 855	5,071	676
1878.....	2,056	835	460	629	622	300	1911...	7,277	5,634	1 762	1 939	5,314	682
1879.....	2,048	836	715	615	649	307	1912...	7,372	5,974	1 861	1 990	5,671	709
1880.....	2,076	995	451	624	834	318	1913...	7,473	6,162	1 889	2 063	5,829	722
1881.....	2,115	1,145	484	642	1,032	312	1914...	7,525	6,445	1 915	2 057	6,125	723
1882.....	2,239	1,209	471	660	1,067	309	1915...	7,605	6,665	2 068	2 105	6,426	723
1883.....	2,417	1,286	465	707	1,013	312	1916...	7,579	7,709	2 352	2 103	7,830	676
1884.....	2,625	1,270	448	739	979	295	1917...	7,604	8,992	3,013	2 217	9,321	660
1885.....	2,689	1,258	432	725	1,106	269	1918...	7,705	10,165	3,957	2 279	10,006	682
1886.....	2,809	1,399	407	760	1,146	245	1919...	7,785	11,027	5,048	2 418	11,865	677
1887.....	3,014	1,560	329	806	1,285	167	1920...	8,030	13,637	4,186	2 684	13,672	688
1888.....	3,120	1,628	356	842	1,292	155	1921...	8,154	11,979	4,025	2 796	12,373	704
1889.....	3,239	1,779	323	875	1,442	129	1922...	8,219	11,193	4,563	2 848	13,229	726
1890.....	3,494	1,934	311	935	1,522	126	1923...	8,241	11,780	5,070	2 876	14,009	720
1891.....	3,652	1,964	306	983	1,535	124	1924...	8,085	11,958	5,142	2 916	14,819	730
1892.....	3,759	2,128	347	1,011	1,753	141	1925...	8,072	12,596	5,730	2 970	16,321	649
1893.....	3,807	2,020	356	1,029	1,557	155	1926...	7,978	13,327	5,842	3,089	17,057	651
1894.....	3,770	1,944	435	1,001	1,678	172	1927...	7,796	13,854	6,393	3,239	18,203	651
1895.....	3,715	2,017	447	987	1,736	179	1928...	7,661	14,927	7,147	3,571	19,300	649
1896.....	3,689	1,972	464	983	1,668	199							

<sup>1</sup> Or nearest report date

<sup>2</sup> Individual and other.

Source of Tables 272 and 273 Comptroller of the Currency, Treasury Department

# No. 274.—NATIONAL BANKS: PRINCIPAL RESOURCES AND LIABILITIES AS OF DECEMBER 31

NOTE.—Data include banks in Alaska and Hawaii

[All figures in millions of dollars]

	1911	1914	1916	1918	1919	1920	1921	1922	1923
<b>RESOURCES</b>									
Total resources <sup>1</sup> .....	10,443	11,357	15,388	20,544	23,685	22,799	18,944	21,975	22,406
Loans and discounts <sup>2</sup> .....	5,695	6,363	8,438	10,447	12,784	13,544	11,466	11,552	11,811
United States Government securities.....	781	795	717	2,956	2,723	2,132	1,976	2,657	2,567
Other bonds, stocks, securities, etc.....	1,052	1,332	1,819	1,789	1,985	1,990	2,081	2,347	2,478
Lawful reserve with Federal reserve banks.....									
Items with Federal reserve banks in process of collection.....		262	707	1,180 286	1,312 457	1,185 423	1,143 350	1,221 456	1,181 400
Due from banks <sup>3</sup> .....	1,668	1,453	2,276	2,540	2,906	1,873	1,599	2,230	2,300
Cash in vault.....	912	735	882	522	509	494	342	392	386
<b>LIABILITIES</b>									
Capital stock.....	1,026	1,066	1,071	1,110	1,158	1,272	1,282	1,317	1,326
Surplus.....	673	727	745	845	921	1,020	1,033	1,076	1,068
Undivided profits <sup>4</sup> .....	265	282	362	389	431	564	465	529	474
Circulation outstanding.....	703	849	606	677	686	694	717	724	726
Due to banks <sup>5</sup> .....	2,234	2,003	3,537	3,637	3,962	2,934	2,535	3,266	3,135
Demand deposits <sup>6</sup> .....	4,918	4,934	6,792	8,991	10,292	9,501	8,568	9,529	9,555
Time deposits <sup>7</sup> .....	469	1,207	1,936	2,474	3,140	3,632	3,749	4,319	4,948
United States deposits.....	53	72	35	313	449	212	188	304	158
Bills payable and rediscounts <sup>8</sup> .....	64	132	90	1,381	1,912	2,343	971	512	582
Acceptances.....			100	305	408	375	219	223	222

  

	1924	1925	1926	1927	1928			
					All banks	Central reserve cities	Other reserve cities	Country banks
<b>RESOURCES</b>								
Total resources <sup>1</sup> .....	24,381	25,852	25,684	28,164	30,589	8,180	9,664	12,764
Loans and discounts <sup>2</sup> .....	12,218	13,423	13,487	14,647	15,291	3,670	4,987	6,635
United States Government securities.....	2,587	2,523	2,283	2,748	3,009	720	1,148	1,141
Other bonds, stocks, securities, etc.....	3,076	3,252	3,508	4,152	4,119	496	983	2,639
Lawful reserve with Federal reserve banks.....	1,394	1,377	1,359	1,509	1,496	497	486	513
Items with Federal reserve banks in process of collection.....	487	572	543	520	4,185	1,884	1,310	991
Due from banks <sup>3</sup> .....	2,862	2,855	2,635	2,433				
Cash in vault.....	410	390	353	361	388	36	99	253
<b>LIABILITIES</b>								
Capital stock.....	1,335	1,379	1,411	1,529	1,616	344	508	765
Surplus.....	1,089	1,167	1,217	1,314	1,490	435	425	630
Undivided profits <sup>4</sup> .....	442	478	477	531	577	127	167	283
Circulation outstanding.....	715	648	646	650	650	39	161	450
Due to banks <sup>5</sup> .....	3,908	3,696	3,431	3,661	4,074	2,096	1,495	483
Demand deposits <sup>6</sup> .....	10,326	11,112	10,730	11,230	11,781	3,304	3,788	4,689
Time deposits <sup>7</sup> .....	5,581	6,047	6,533	7,808	8,307	736	2,444	5,127
United States deposits.....	153	193	138	169	186	28	111	47
Bills payable and rediscounts <sup>8</sup> .....	287	526	530	481	785	332	228	225
Acceptances.....	262	298	274	389	548	367	170	11

<sup>1</sup> Includes unspecified items<sup>2</sup> Includes rediscounts and overdrafts, excludes acceptances of other banks and bills of exchange or drafts sold with indorsement beginning 1921<sup>3</sup> Includes exchanges for clearing house and other checks on local banks<sup>4</sup> Less expenses and taxes paid, includes reserves for dividends, contingencies, etc., but excludes, beginning 1924, reserves for taxes, interest, etc., accrued<sup>5</sup> Includes certified and cashiers' checks, letters of credit, and travelers' checks and beginning 1927, dividend checks outstanding.<sup>6</sup> Excludes dividends unpaid and certified and cashiers' checks outstanding.<sup>7</sup> Includes postal savings deposits.<sup>8</sup> Excludes acceptances of other banks and bills of exchange or draft sold with indorsement beginning 1921.

Source Comptroller of the Currency, Treasury Department.

# No. 275.—NATIONAL BANKS: NUMBER AND TOTAL RESOURCES, BY STATES, DECEMBER 31

[Resources in millions and tenths of millions of dollars]

Division and State	Number of banks					Total resources				
	1920	1924	1926	1927	1928	1920	1924	1926	1927	1928
<b>Grand total.....</b>	<b>8,130</b>	<b>8,049</b>	<b>7,912</b>	<b>7,765</b>	<b>7,635</b>	<b>22,799.4</b>	<b>24,381.3</b>	<b>25,683.8</b>	<b>28,164.2</b>	<b>30,589.2</b>
<b>Continental U S.....</b>	<b>8,124</b>	<b>8,043</b>	<b>7,908</b>	<b>7,759</b>	<b>7,629</b>	<b>22,788.7</b>	<b>24,369.0</b>	<b>25,669.1</b>	<b>28,148.6</b>	<b>30,573.5</b>
<b>New England.....</b>	<b>411</b>	<b>394</b>	<b>389</b>	<b>389</b>	<b>386</b>	<b>1,597.7</b>	<b>1,978.7</b>	<b>2,115.5</b>	<b>2,285.3</b>	<b>2,352.7</b>
Maine.....	63	58	57	57	54	112.1	136.2	154.4	165.1	164.1
New Hampshire.....	56	54	55	55	56	63.7	74.0	79.8	84.4	88.0
Vermont.....	49	46	46	46	46	55.5	62.4	71.1	75.5	80.8
Massachusetts.....	160	157	155	153	154	1,050.4	1,357.5	1,466.3	1,570.9	1,614.9
Rhode Island.....	17	17	13	13	11	71.0	77.9	63.0	66.3	64.4
Connecticut.....	66	62	63	65	65	236.0	270.8	280.8	323.0	340.4
<b>Middle Atlantic.....</b>	<b>1,573</b>	<b>1,654</b>	<b>1,712</b>	<b>1,725</b>	<b>1,723</b>	<b>8,791.3</b>	<b>9,649.8</b>	<b>10,187.3</b>	<b>10,890.0</b>	<b>12,602.7</b>
New York.....	493	533	546	563	565	5,536.6	5,902.3	6,095.1	6,706.8	8,268.8
New Jersey.....	217	253	290	295	299	577.6	803.6	959.4	991.4	1,063.0
Pennsylvania.....	853	868	876	867	854	2,627.1	2,943.9	3,132.8	3,191.8	3,270.9
<b>East North Central.....</b>	<b>1,386</b>	<b>1,382</b>	<b>1,372</b>	<b>1,344</b>	<b>1,330</b>	<b>8,946.9</b>	<b>8,899.9</b>	<b>4,204.2</b>	<b>4,369.3</b>	<b>4,734.7</b>
Ohio.....	373	358	347	338	323	1,114.5	897.4	963.3	910.6	917.7
Indiana.....	253	247	240	230	224	420.7	420.9	438.3	455.7	482.6
Illinois.....	487	499	494	487	488	1,617.3	1,658.9	1,776.1	1,971.4	2,155.5
Michigan.....	116	122	134	133	134	407.4	501.9	571.6	560.5	640.8
Wisconsin.....	152	156	157	156	156	387.0	420.8	454.9	471.1	538.1
<b>West North Central.....</b>	<b>1,598</b>	<b>1,514</b>	<b>1,384</b>	<b>1,350</b>	<b>1,314</b>	<b>2,458.7</b>	<b>2,483.1</b>	<b>2,340.3</b>	<b>2,433.0</b>	<b>2,472.3</b>
Minnesota.....	340	330	286	281	278	626.9	700.1	648.3	685.6	697.5
Iowa.....	357	344	300	281	269	450.2	406.9	365.0	358.5	355.6
Missouri.....	133	131	136	136	134	673.4	663.9	662.7	708.0	696.9
North Dakota.....	180	165	146	141	133	99.3	112.1	97.9	97.7	96.9
South Dakota.....	136	114	100	97	96	104.8	90.8	75.5	77.6	82.8
Nebraska.....	187	173	160	157	156	266.3	254.3	232.1	238.0	254.7
Kansas.....	205	257	256	257	248	237.8	255.0	258.8	267.6	277.9
<b>South Atlantic.....</b>	<b>733</b>	<b>732</b>	<b>702</b>	<b>686</b>	<b>669</b>	<b>1,674.0</b>	<b>1,811.6</b>	<b>1,947.9</b>	<b>2,064.4</b>	<b>1,990.8</b>
Delaware.....	18	18	19	19	17	21.6	23.6	25.8	26.9	27.0
Maryland.....	92	84	84	84	83	295.6	291.9	311.7	330.8	309.9
Dist. of Col.....	15	13	13	13	12	111.4	144.5	157.4	164.9	173.6
Virginia.....	167	182	170	167	165	409.7	408.2	400.2	418.3	399.6
West Virginia.....	123	124	124	120	119	198.6	204.5	206.4	204.4	203.9
North Carolina.....	87	74	79	76	75	169.9	191.4	193.1	215.7	206.0
South Carolina.....	82	79	68	62	55	143.0	138.9	133.0	147.5	138.7
Georgia.....	94	93	82	83	81	194.9	205.3	206.2	289.8	285.2
Florida.....	55	55	63	62	62	128.3	203.3	312.1	265.6	246.9
<b>East South Central.....</b>	<b>367</b>	<b>352</b>	<b>353</b>	<b>358</b>	<b>365</b>	<b>687.7</b>	<b>764.9</b>	<b>832.2</b>	<b>947.2</b>	<b>980.0</b>
Kentucky.....	133	138	140	141	140	253.5	276.0	293.9	322.4	330.3
Tennessee.....	92	106	108	104	102	226.2	229.4	254.6	277.7	289.6
Alabama.....	105	102	104	106	107	152.3	180.0	191.8	247.6	261.8
Mississippi.....	31	36	36	37	36	55.7	79.5	91.9	99.5	98.3
<b>West South Central.....</b>	<b>1,035</b>	<b>1,099</b>	<b>1,128</b>	<b>1,094</b>	<b>1,068</b>	<b>1,428.9</b>	<b>1,657.9</b>	<b>1,679.9</b>	<b>1,817.9</b>	<b>1,956.1</b>
Arkansas.....	85	87	81	78	78	82.1	104.1	102.4	106.2	106.9
Louisiana.....	39	33	33	32	33	155.2	128.2	143.3	136.4	148.1
Oklahoma.....	355	407	358	341	325	360.7	425.6	414.1	440.7	470.6
Texas.....	556	572	656	643	632	830.9	1,000.0	1,020.1	1,134.6	1,230.5
<b>Mountain.....</b>	<b>528</b>	<b>414</b>	<b>384</b>	<b>350</b>	<b>338</b>	<b>672.2</b>	<b>624.7</b>	<b>625.7</b>	<b>650.4</b>	<b>676.3</b>
Montana.....	145	91	75	71	70	109.3	87.2	90.3	100.2	111.9
Idaho.....	86	67	55	52	44	82.4	62.3	61.8	63.2	56.6
Wyoming.....	47	32	32	29	26	64.8	46.9	47.4	45.0	46.8
Colorado.....	142	140	127	124	123	249.9	289.2	285.7	294.7	293.5
New Mexico.....	45	33	30	29	28	44.8	29.9	31.5	37.4	40.0
Arizona.....	31	19	15	15	15	35.5	29.2	28.1	32.1	37.7
Utah.....	28	21	20	20	20	69.0	61.5	61.0	66.4	67.3
Nevada.....	11	11	10	10	10	17.0	18.5	19.9	21.4	23.0
<b>Pacific.....</b>	<b>493</b>	<b>472</b>	<b>472</b>	<b>433</b>	<b>413</b>	<b>1,531.7</b>	<b>1,498.5</b>	<b>1,736.3</b>	<b>2,691.0</b>	<b>2,807.4</b>
Washington.....	94	111	107	111	110	257.3	305.8	319.1	340.3	357.0
Oregon.....	91	98	97	95	93	188.2	193.3	226.2	227.7	232.6
California.....	308	263	268	227	210	1,086.2	999.4	1,191.0	2,123.0	2,217.9
<b>New York City<sup>1</sup>.....</b>	<b>51</b>	<b>55</b>	<b>53</b>	<b>53</b>	<b>52</b>	<b>4,638.0</b>	<b>4,681.6</b>	<b>4,799.3</b>	<b>5,269.9</b>	<b>6,769.0</b>
<b>Chicago<sup>1,2</sup>.....</b>	<b>10</b>	<b>13</b>	<b>12</b>	<b>13</b>	<b>10</b>	<b>1,039.1</b>	<b>1,003.7</b>	<b>1,063.3</b>	<b>1,240.5</b>	<b>1,571.0</b>
<b>Alaska.....</b>	<b>3</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>2.3</b>	<b>3.5</b>	<b>4.4</b>	<b>4.9</b>	<b>5.1</b>
<b>Hawaii.....</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>8.4</b>	<b>8.8</b>	<b>10.4</b>	<b>10.7</b>	<b>10.6</b>

<sup>1</sup> Included in figures for respective States<sup>2</sup> Central reserve city banks

Source Comptroller of the Currency, Treasury Department.

## No. 276.—NATIONAL BANKS: SUMMARY, BY STATES, DECEMBER 31, 1928

NOTE—All money figures in thousands of dollars. Figures include reserve cities in each State

Division and State	Number of banks	Total resources or liabilities	Loans and discounts <sup>1</sup>	Investments	Lawful reserve with Federal reserve banks	Capital, surplus and undivided profits, net <sup>2</sup>	National bank circulation	Demand deposits	Time deposits
<b>Grand total</b> .....	<b>7,635</b>	<b>30,589,156</b>	<b>15,291,269</b>	<b>7,127,318</b>	<b>1,496,316</b>	<b>3,598,303</b>	<b>650,405</b>	<b>11,780,721</b>	<b>8,308,936</b>
<b>Continental U. S.</b> .....	<b>7,629</b>	<b>30,573,457</b>	<b>15,285,144</b>	<b>7,121,596</b>	<b>1,496,316</b>	<b>3,596,259</b>	<b>649,893</b>	<b>11,774,872</b>	<b>8,304,361</b>
<b>New England</b> .....	<b>386</b>	<b>2,352,674</b>	<b>1,238,724</b>	<b>539,620</b>	<b>99,307</b>	<b>307,211</b>	<b>45,505</b>	<b>912,684</b>	<b>671,951</b>
Maine.....	54	164,097	77,436	67,846	5,471	20,089	5,227	34,398	57,676
New Hampshire.....	56	88,040	43,233	28,902	3,694	14,492	4,678	39,069	21,586
Vermont.....	46	80,792	41,654	29,013	2,817	10,968	4,264	18,568	42,452
Massachusetts.....	154	1,614,893	842,879	315,274	72,341	194,393	18,297	639,997	395,918
Rhode Island.....	11	64,420	33,790	21,683	2,407	12,371	3,865	27,934	15,306
Connecticut.....	65	340,432	199,532	76,902	12,577	54,898	9,174	132,718	99,913
<b>Middle Atlantic</b> .....	<b>1,728</b>	<b>12,602,695</b>	<b>5,768,937</b>	<b>2,936,836</b>	<b>634,997</b>	<b>1,540,035</b>	<b>170,884</b>	<b>4,606,898</b>	<b>2,882,974</b>
New York.....	565	8,248,796	3,574,294	1,588,415	453,227	913,533	67,437	3,116,594	1,255,931
New Jersey.....	269	1,062,969	584,906	315,833	42,761	140,864	22,514	377,208	406,443
Pennsylvania.....	864	3,270,860	1,610,167	1,032,338	139,060	496,911	80,993	1,115,991	1,160,600
<b>East North Central</b> .....	<b>1,330</b>	<b>4,734,697</b>	<b>2,604,419</b>	<b>1,078,023</b>	<b>245,848</b>	<b>544,359</b>	<b>127,729</b>	<b>1,913,426</b>	<b>1,421,127</b>
Ohio.....	328	917,673	484,413	239,478	38,807	120,811	35,683	345,000	298,173
Indiana.....	224	482,636	252,641	119,493	20,894	59,454	21,815	192,067	152,496
Illinois.....	488	2,155,458	1,221,827	421,794	138,972	231,202	36,021	944,983	513,790
Michigan.....	134	640,833	345,916	160,858	25,191	68,399	17,793	212,432	248,983
Wisconsin.....	156	538,097	296,622	131,400	21,894	50,293	15,934	188,944	207,685
<b>West North Central</b> .....	<b>1,314</b>	<b>2,172,270</b>	<b>1,231,886</b>	<b>633,885</b>	<b>127,326</b>	<b>251,981</b>	<b>66,732</b>	<b>1,020,062</b>	<b>686,372</b>
Minnesota.....	278	697,531	327,424	202,807	34,442	68,214	14,085	245,251	250,610
Iowa.....	269	365,613	184,280	94,770	10,463	36,637	14,001	134,833	129,611
Missouri.....	134	696,899	373,476	150,730	40,548	76,996	16,211	310,539	124,071
North Dakota.....	133	96,873	46,249	28,809	4,238	9,012	3,259	37,510	41,294
South Dakota.....	96	82,754	36,064	26,825	3,779	7,776	2,119	36,402	28,762
Nebraska.....	156	254,714	132,084	57,237	13,196	25,762	7,421	109,377	53,290
Kansas.....	248	277,886	132,309	72,707	14,660	29,584	9,536	140,150	57,734
<b>South Atlantic</b> .....	<b>669</b>	<b>1,980,848</b>	<b>1,136,239</b>	<b>403,032</b>	<b>79,928</b>	<b>263,329</b>	<b>68,596</b>	<b>688,188</b>	<b>683,665</b>
Delaware.....	17	26,972	12,431	10,492	1,048	5,122	1,069	9,878	9,601
Maryland.....	83	309,922	160,045	80,615	13,032	38,246	7,875	100,172	114,403
Dist. of Col.....	12	173,635	95,434	33,734	9,005	22,100	3,861	71,709	44,006
Virginia.....	165	399,558	262,768	63,544	13,960	57,255	19,227	122,566	148,851
West Virginia.....	119	203,947	128,479	36,953	8,310	29,429	10,186	68,172	77,766
North Carolina.....	75	203,975	128,432	28,327	7,767	28,868	8,276	73,391	69,263
South Carolina.....	55	138,747	70,732	26,787	5,097	16,322	5,785	44,280	55,815
Georgia.....	81	285,211	164,363	44,556	11,627	36,519	7,615	107,681	86,102
Florida.....	62	246,881	107,555	77,824	10,082	29,470	4,742	85,339	90,858
<b>East South Central</b> .....	<b>385</b>	<b>979,966</b>	<b>578,188</b>	<b>184,224</b>	<b>41,370</b>	<b>120,516</b>	<b>46,032</b>	<b>372,601</b>	<b>291,997</b>
Kentucky.....	140	330,312	191,535	74,649	13,433	40,201	16,130	128,031	93,145
Tennessee.....	102	289,584	176,691	40,431	12,683	33,564	13,137	96,803	95,347
Alabama.....	107	261,772	154,924	48,942	11,127	36,375	13,637	107,140	70,795
Mississippi.....	36	98,298	55,038	20,202	4,127	10,376	3,128	40,627	32,710
<b>West South Central</b> .....	<b>1,068</b>	<b>1,956,143</b>	<b>1,001,467</b>	<b>389,895</b>	<b>104,369</b>	<b>209,957</b>	<b>58,229</b>	<b>972,685</b>	<b>346,299</b>
Arkansas.....	78	106,927	55,865	24,708	4,657	12,536	3,758	43,907	32,458
Louisiana.....	33	148,100	87,272	16,161	6,837	16,499	4,317	71,930	22,285
Oklahoma.....	325	470,647	269,228	127,303	27,379	38,627	6,822	244,216	95,340
Texas.....	632	1,230,469	649,102	231,723	65,496	142,295	43,332	612,532	196,216
<b>Mountain</b> .....	<b>338</b>	<b>676,753</b>	<b>311,040</b>	<b>187,503</b>	<b>35,007</b>	<b>57,628</b>	<b>14,908</b>	<b>317,713</b>	<b>210,001</b>
Montana.....	70	111,917	52,947	32,963	5,304	9,529	2,359	51,234	41,010
Idaho.....	44	56,612	27,203	14,441	2,684	4,527	1,461	27,552	18,115
Wyoming.....	26	46,826	21,800	13,898	2,173	4,618	1,481	21,838	14,488
Colorado.....	123	293,453	129,302	82,592	15,874	25,220	4,212	133,417	94,166
New Mexico.....	28	40,041	18,877	11,078	2,213	3,203	1,255	25,391	7,718
Arizona.....	15	37,655	16,210	11,946	1,791	2,668	775	20,415	11,227
Utah.....	20	67,289	33,017	15,283	4,002	5,460	2,170	29,540	14,859
Nevada.....	10	22,960	11,684	5,302	966	2,273	1,195	8,326	8,418
<b>Pacific</b> .....	<b>413</b>	<b>2,807,481</b>	<b>1,414,544</b>	<b>763,778</b>	<b>128,184</b>	<b>301,240</b>	<b>51,728</b>	<b>972,620</b>	<b>1,098,975</b>
Washington.....	110	357,001	161,432	107,705	17,589	33,496	12,046	159,082	108,778
Oregon.....	93	232,564	90,518	89,360	10,984	22,611	5,162	96,677	87,323
California.....	210	2,217,916	1,162,894	566,713	99,591	245,133	34,520	716,861	902,874
<b>New York City</b> <sup>3,4</sup> .....	<b>22</b>	<b>6,788,953</b>	<b>3,829,856</b>	<b>1,048,973</b>	<b>392,002</b>	<b>785,749</b>	<b>33,281</b>	<b>2,619,161</b>	<b>538,673</b>
<b>Chicago</b> <sup>3</sup> .....	<b>10</b>	<b>1,371,002</b>	<b>839,654</b>	<b>166,992</b>	<b>104,979</b>	<b>137,914</b>	<b>6,118</b>	<b>654,887</b>	<b>197,059</b>
<b>Alaska</b> .....	<b>4</b>	<b>5,138</b>	<b>2,189</b>	<b>1,848</b>	-----	<b>481</b>	<b>62</b>	<b>2,388</b>	<b>1,768</b>
<b>Hawaii</b> .....	<b>2</b>	<b>10,561</b>	<b>3,936</b>	<b>3,874</b>	-----	<b>1,563</b>	<b>450</b>	<b>3,461</b>	<b>809</b>

<sup>1</sup> Including rediscounts and overdrafts<sup>2</sup> Less expenses and taxes paid, excludes reserve for dividends, contingencies, etc.<sup>3</sup> Included in figures for respective States.<sup>4</sup> Central reserve city banks.

Source Comptroller of the Currency, Treasury Department.

# **No. 277.—NATIONAL BANKS: LOANS AND DISCOUNTS, BY RESERVE CITIES AND STATES, DECEMBER 31**

NOTE.—Notes and bills rediscounted and overdrafts are included. Acceptances of other banks and bills of exchange or drafts sold with indorsement are excluded

[All figures in thousands of dollars]

City, State, or Territory	1926	1927	1928	City, State, or Territory	1926	1927	1928
<b>Grand total</b> .....	<b>13,487,258</b>	<b>14,647,042</b>	<b>15,291,269</b>	<b>Country banks</b> .....	<b>6,257,950</b>	<b>6,307,647</b>	<b>6,629,064</b>
<b>Continental U. S.</b> .....	<b>13,481,965</b>	<b>14,641,073</b>	<b>15,285,144</b>	<b>New England</b> .....	<b>634,727</b>	<b>648,839</b>	<b>684,998</b>
New York City.....	2,312,561	2,748,299	2,829,856	Maine.....	69,294	72,426	77,636
Chicago <sup>1</sup> .....	657,301	738,772	859,654	New Hampshire.....	39,078	40,005	43,233
Other reserve cities.....	4,254,153	4,846,355	4,986,570	Vermont.....	35,771	37,705	41,654
Boston.....	496,410	536,097	553,726	Massachusetts.....	301,934	285,345	289,153
Albany.....	39,338	43,866	43,287	Rhode Island.....	34,876	33,537	33,790
Brooklyn and Bronx.....	46,858	60,879	47,434	Connecticut.....	153,774	179,821	199,532
Buffalo.....	10,673	15,228	20,939	Middle Atlantic.....	1,866,151	1,929,283	2,118,641
Philadelphia.....	514,878	481,317	478,865	New York.....	630,397	570,693	631,748
Pittsburgh.....	217,723	198,470	229,315	New Jersey.....	507,015	524,646	584,906
Baltimore.....	99,733	94,884	95,778	Pennsylvania.....	828,739	833,969	901,987
Washington.....	86,638	90,148	95,434	East North Central.....	1,074,780	1,070,807	1,130,449
Richmond.....	56,405	59,059	39,353	Ohio.....	300,202	295,341	311,501
Charlotte.....	16,390	17,452	17,452	Indiana.....	184,302	179,494	196,537
Atlanta.....	60,900	61,910	62,607	Illinois.....	299,610	299,374	308,129
Savannah.....	50,720	44,344	50,384	Michigan.....	142,822	148,220	161,863
Jacksonville.....	31,467	49,082	51,356	Wisconsin.....	147,818	148,378	152,419
Birmingham.....	32,780	28,022	30,551	West North Central.....	585,030	562,188	560,234
New Orleans.....	90,726	98,932	108,096	Minnesota.....	139,016	135,845	135,267
Dallas.....	13,749	14,225	16,731	Iowa.....	145,800	129,398	127,019
El Paso.....	43,080	48,307	52,164	Missouri.....	50,826	52,460	54,171
Fort Worth.....	17,884	20,536	21,840	North Dakota.....	49,692	47,361	46,249
Galveston.....	80,493	85,327	87,446	South Dakota.....	35,924	35,208	36,064
Houston.....	31,656	35,358	41,535	Nebraska.....	62,750	59,681	60,388
San Antonio.....	12,583	12,308	12,331	Kansas.....	101,042	102,235	101,076
Waco.....	4,825	3,683	3,114	South Atlantic.....	779,216	750,578	743,875
Little Rock.....	65,911	65,224	76,136	Delaware.....	12,256	12,477	12,431
Louisville.....	11,223	13,821	11,758	Maryland.....	59,933	60,736	64,267
Memphis.....	43,524	46,930	52,007	Virginia.....	208,180	216,838	223,415
Cincinnati.....	90,534	45,555	52,446	North Carolina.....	132,180	129,747	128,479
Cleveland.....	62,844	62,534	62,080	South Carolina.....	126,783	110,493	110,980
Columbus.....	57,180	55,182	49,962	Georgia.....	76,833	80,108	76,732
Toledo.....	7,550	8,500	8,474	Florida.....	59,147	59,780	51,372
Indianapolis.....	53,383	57,206	56,104	East South Central.....	103,924	80,399	76,199
Chicago.....	39,042	40,285	53,912	Kentucky.....	347,736	371,624	384,505
Peoria.....	17,249	19,687	20,132	Tennessee.....	112,258	114,498	115,399
Detroit.....	148,312	121,082	160,035	Alabama.....	77,012	91,580	101,142
Grand Rapids.....	24,153	22,966	24,018	Mississippi.....	50,946	54,266	55,038
Milwaukee.....	103,478	101,226	147,203	West South Central.....	485,103	496,549	510,222
Minneapolis.....	122,805	123,966	118,812	Arkansas.....	55,405	53,877	52,751
St. Paul.....	66,688	69,508	73,345	Louisiana.....	56,613	52,920	56,721
Cedar Rapids.....	12,618	14,784	13,417	Oklahoma.....	93,148	92,973	91,791
Des Moines.....	21,120	20,728	21,561	Texas.....	279,937	296,779	308,959
Dubuque.....	4,534	5,808	5,673	Mountain.....	184,813	187,821	199,934
Sioux City.....	16,033	16,650	16,610	Montana.....	37,503	42,087	47,324
Kansas City, Mo.....	77,914	83,645	82,447	Idaho.....	31,091	28,926	27,263
St. Joseph.....	14,625	16,153	16,640	Wyoming.....	22,840	21,074	21,800
St. Louis.....	233,178	247,560	220,218	Colorado.....	48,334	48,371	49,794
Lincoln.....	14,585	14,048	14,642	New Mexico.....	14,852	16,884	18,877
Omaha.....	55,462	55,625	57,054	Arizona.....	12,929	13,943	16,210
Kansas City, Kans.....	6,863	6,951	7,524	Utah.....	6,588	6,286	7,042
Topeka.....	8,108	7,028	7,156	Nevada.....	10,676	10,250	11,684
Wichita.....	16,167	17,293	16,553	Pacific.....	300,364	289,958	296,208
Helena.....	4,301	5,196	5,623	Washington.....	64,637	65,100	69,399
Denver.....	70,331	70,777	74,484	Oregon.....	45,938	44,187	45,810
Pueblo.....	6,315	5,569	5,024	California.....	189,739	180,611	180,997
Muskogee.....	5,968	5,521	5,655	Alaska.....	1,807	2,063	2,189
Oklahoma City.....	34,087	44,328	47,273	Hawaii.....	3,486	3,906	3,936
Tulsa.....	56,195	56,348	64,509				
Seattle.....	61,880	61,255	67,058				
Spokane.....	25,928	27,829	24,075				
Portland.....	58,292	49,792	44,708				
Los Angeles.....	258,958	382,766	340,648				
Oakland.....	19,487	19,891	23,243				
San Francisco.....	191,567	590,172	618,006				
Ogden.....	5,542	5,328	6,235				
Salt Lake City.....	21,160	22,964	19,740				

<sup>1</sup> Central reserve city banks.

Source: Comptroller of the Currency, Treasury Department.

# No. 277.—NATIONAL BANKS: LOANS AND DISCOUNTS, BY RESERVE CITIES AND STATES, DECEMBER 31

NOTE.—Notes and bills rediscounted and overdrafts are included. Acceptances of other banks and bills of exchange or drafts sold with indorsement are excluded

[All figures in thousands of dollars]

City, State, or Territory	1926	1927	1928	City, State, or Territory	1926	1927	1928
<b>Grand total</b> .....	<b>13,487,258</b>	<b>14,647,042</b>	<b>15,291,269</b>	<b>Country banks</b> .....	<b>6,257,950</b>	<b>6,307,647</b>	<b>6,629,064</b>
<b>Continental U. S.</b> .....	<b>13,481,965</b>	<b>14,641,073</b>	<b>15,285,144</b>	<b>New England</b> .....	<b>634,727</b>	<b>648,839</b>	<b>684,998</b>
New York City.....	2,312,561	2,748,299	2,829,856	Maine.....	69,294	72,426	77,636
Chicago <sup>1</sup> .....	657,301	738,772	859,654	New Hampshire.....	39,078	40,005	43,233
Other reserve cities.....	4,254,153	4,846,355	4,986,570	Vermont.....	35,771	37,705	41,654
Boston.....	496,410	536,097	553,726	Massachusetts.....	301,934	285,345	289,153
Albany.....	39,338	43,866	43,287	Rhode Island.....	34,876	33,537	33,790
Brooklyn and Bronx.....	46,858	60,879	47,434	Connecticut.....	153,774	179,821	199,532
Buffalo.....	10,673	15,228	20,939	Middle Atlantic.....	1,866,151	1,929,283	2,118,641
Philadelphia.....	514,878	481,317	478,865	New York.....	630,397	570,693	631,748
Pittsburgh.....	217,723	198,470	229,315	New Jersey.....	507,015	524,646	584,906
Baltimore.....	99,733	94,884	95,778	Pennsylvania.....	828,739	833,969	901,987
Washington.....	86,638	90,148	95,434	East North Central.....	1,074,780	1,070,807	1,130,449
Richmond.....	56,405	59,059	39,353	Ohio.....	300,202	295,341	311,501
Charlotte.....	16,390	17,452	17,452	Indiana.....	184,302	179,494	196,537
Atlanta.....	60,900	61,910	62,607	Illinois.....	299,610	299,374	308,129
Savannah.....	50,720	44,344	50,384	Michigan.....	142,822	148,220	161,863
Jacksonville.....	31,467	49,082	51,356	Wisconsin.....	147,818	148,378	152,419
Birmingham.....	32,780	28,022	30,551	West North Central.....	585,030	562,188	560,234
New Orleans.....	90,726	98,932	108,096	Minnesota.....	139,016	135,845	135,267
Dallas.....	13,749	14,225	16,731	Iowa.....	145,800	129,398	127,019
El Paso.....	43,080	48,307	52,164	Missouri.....	50,826	52,460	54,171
Fort Worth.....	17,884	20,536	21,840	North Dakota.....	49,692	47,361	46,249
Galveston.....	80,493	85,327	87,446	South Dakota.....	35,924	35,208	36,064
Houston.....	31,656	35,358	41,535	Nebraska.....	62,750	59,681	60,388
San Antonio.....	12,583	12,308	12,331	Kansas.....	101,042	102,235	101,076
Waco.....	4,825	3,683	3,114	South Atlantic.....	779,216	750,578	743,875
Little Rock.....	65,911	65,224	76,136	Delaware.....	12,256	12,477	12,431
Louisville.....	11,223	13,821	11,758	Maryland.....	59,933	60,736	64,267
Memphis.....	43,524	46,930	52,007	Virginia.....	208,180	216,838	223,415
Cincinnati.....	90,534	45,555	52,446	North Carolina.....	132,180	129,747	128,479
Cleveland.....	62,844	62,534	62,080	South Carolina.....	126,783	110,493	110,980
Columbus.....	57,180	55,182	49,962	Georgia.....	76,833	80,108	76,732
Toledo.....	7,550	8,500	8,474	Florida.....	59,147	59,780	51,372
Indianapolis.....	53,383	57,206	56,104	East South Central.....	103,924	80,399	76,199
Chicago.....	39,042	40,285	53,912	Kentucky.....	347,736	371,624	384,505
Peoria.....	17,249	19,687	20,132	Tennessee.....	112,258	114,498	115,399
Detroit.....	148,312	121,082	160,035	Alabama.....	77,012	91,580	101,142
Grand Rapids.....	24,153	22,966	24,018	Mississippi.....	50,946	54,266	55,038
Milwaukee.....	103,478	101,226	147,203	West South Central.....	485,103	496,549	510,222
Minneapolis.....	122,805	123,966	118,812	Arkansas.....	55,405	53,877	52,751
St. Paul.....	66,688	69,508	73,345	Louisiana.....	56,613	52,920	56,721
Cedar Rapids.....	12,618	14,784	13,417	Oklahoma.....	93,148	92,973	91,791
Des Moines.....	21,120	20,728	21,561	Texas.....	279,937	296,779	308,959
Dubuque.....	4,534	5,808	5,673	Mountain.....	184,813	187,821	199,934
Sioux City.....	16,033	16,650	16,610	Montana.....	37,503	42,087	47,324
Kansas City, Mo.....	77,914	83,645	82,447	Idaho.....	31,091	28,926	27,263
St. Joseph.....	14,625	16,153	16,640	Wyoming.....	22,840	21,074	21,800
St. Louis.....	233,178	247,560	220,218	Colorado.....	48,334	48,371	49,794
Lincoln.....	14,585	14,048	14,642	New Mexico.....	14,852	16,884	18,877
Omaha.....	55,462	55,625	57,054	Arizona.....	12,929	13,943	16,210
Kansas City, Kans.....	6,863	6,951	7,524	Utah.....	6,588	6,286	7,042
Topeka.....	8,108	7,028	7,156	Nevada.....	10,676	10,250	11,684
Wichita.....	16,167	17,293	16,553	Pacific.....	300,364	289,958	296,208
Helena.....	4,301	5,196	5,623	Washington.....	64,637	65,100	69,399
Denver.....	70,331	70,777	74,484	Oregon.....	45,938	44,187	45,810
Pueblo.....	6,315	5,569	5,024	California.....	189,739	180,611	180,997
Muskogee.....	5,968	5,521	5,655	Alaska.....	1,807	2,063	2,189
Oklahoma City.....	34,087	44,328	47,273	Hawaii.....	3,486	3,906	3,936
Tulsa.....	56,195	56,348	64,509				
Seattle.....	61,880	61,255	67,058				
Spokane.....	25,928	27,829	24,075				
Portland.....	58,292	49,792	44,708				
Los Angeles.....	258,958	382,766	340,648				
Oakland.....	19,487	19,891	23,243				
San Francisco.....	191,567	590,172	618,006				
Ogden.....	5,542	5,328	6,235				
Salt Lake City.....	21,160	22,964	19,740				

<sup>1</sup> Central reserve city banks.

Source: Comptroller of the Currency, Treasury Department.

## No. 280.—NATIONAL BANKS: DIVIDENDS AND EARNINGS

NOTE.—The dividends and earnings are for years ending Mar 1, prior to 1907, and for years ending June 30 thereafter. Net additions to profits are calculated before deducting dividends. Data include banks in Alaska and Hawaii.

Yearly average or year (see note above)	Amount (millions of dollars)		Ratio (per cent)			Year (see note above)	Amount (millions of dollars)		Ratio (per cent)		
	Net addition to profits	Dividends	Dividends to capital	Dividends to capital and surplus	Net addition to profits to capital and surplus		Net addition to profits	Dividends	Dividends to capital	Dividends to capital and surplus	Net addition to profits to capital and surplus
1891-1895.....	62 7	49 0	7 3	5 4	6 9	1916.....	157 5	114 7	10 76	6 38	8 76
1896-1900.....	52 4	45 0	7 2	5 1	6 0	1917.....	194 3	125 5	11 61	6 79	10 52
1901-1905.....	102 2	64 0	9 2	6 2	10 0	1918.....	212 3	129 8	11 82	6 78	11 09
1905.....	105 2	71 0	9 2	6 1	9 0	1919.....	240 4	135 6	12 15	6 83	12 11
1906.....	113 7	80 8	10 4	6 8	9 5	1920.....	282 1	147 8	12 10	6 70	12 78
1907 <sup>1</sup> .....	219 2	144 4	17 2	10 8	16 4	1921.....	216 1	158 2	12 42	6 88	9 40
1908.....	132 3	98 1	10 80	6 75	9 10	1922.....	183 7	165 9	12 69	7 04	7 79
1909.....	131 2	93 0	10 12	6 18	8 72	1923.....	203 5	179 2	13 48	7 47	8 48
1910.....	154 2	105 9	10 99	6 65	9 67	1924.....	195 7	163 7	12 27	6 78	8 11
1911.....	157 0	114 7	11 38	6 83	9 35	1925.....	223 9	165 0	12 05	6 63	9 00
1912.....	149 1	120 3	11 66	6 93	8 59	1926.....	249 2	173 8	12 30	6 65	9 54
1913.....	161 0	119 9	11 40	6 75	9 06	1927.....	252 3	180 8	12 26	6 62	9 24
1914.....	149 3	120 9	11 37	6 80	8 39	1928.....	270 2	205 4	12 68	6 81	8 96
1915.....	127 1	113 7	10 63	6 33	7 08						

<sup>1</sup> Mar. 1, 1906, to July 1, 1907.

## No. 281.—BANKS OTHER THAN NATIONAL: PRINCIPAL RESOURCES AND LIABILITIES

NOTE.—Data relate in general to June 30. Banks in Alaska, Hawaii, Porto Rico, and Philippine Island are included.

[All figures, except number of banks, in thousands of dollars]

	1910	1915	1920	1925	1926	1927
Number reporting.....	15, 950	19, 457	22, 109	20, 769	20, 168	19, 265
Resources.....	12, 553, 696	16, 008, 445	29, 667, 855	37, 708, 174	39, 577, 738	41, 550, 615
Loans and discounts <sup>1</sup> .....	7, 065, 907	9, 093, 528	17, 263, 796	21, 073, 990	22, 623, 107	23, 348, 844
Investments <sup>2</sup> .....	3, 111, 410	3, 813, 563	7, 201, 060	9, 669, 669	9, 972, 888	10, 861, 875
Lawful reserve.....	1, 191, 401	1, 644, 964	2, 712, 040	1, 392, 046	1, 545, 415	1, 526, 902
Due from banks.....				2, 083, 561	1, 859, 627	1, 999, 498
Exchanges for clearing house, checks, and other cash items.....	137, 604	126, 589	533, 952	1, 042, 599	971, 165	1, 042, 167
Cash on hand.....	558, 356	599, 945	626, 027	591, 681	636, 569	613, 692
All other.....	488, 958	729, 856	1, 330, 980	1, 847, 628	1, 968, 967	2, 128, 137
Liabilities.....	12, 553, 696	16, 008, 445	29, 667, 855	37, 708, 174	39, 577, 738	41, 550, 615
Capital stock.....	890, 377	1, 094, 322	1, 478, 473	1, 800, 276	1, 860, 431	1, 902, 325
Surplus fund.....	903, 060	1, 010, 839	1, 423, 962	2, 054, 406	2, 273, 069	2, 507, 582
Undivided profits.....	191, 136	325, 022	429, 473	525, 728	585, 584	623, 785
Individual deposits <sup>3</sup> .....	9, 893, 161	12, 539, 469	23, 596, 312	30, 394, 519	31, 769, 498	32, 959, 322
Due to banks <sup>4</sup> .....	428, 264	668, 071	948, 856	1, 623, 114	1, 581, 006	2, 013, 353
Bills payable and rediscounts.....	83, 743	128, 094	1, 078, 792	446, 295	501, 186	461, 466
All other.....	163, 955	242, 037	711, 987	861, 836	1, 006, 966	1, 183, 782

<sup>1</sup> Includes rediscounts and overdrafts.

<sup>2</sup> Includes premiums on bonds.

<sup>3</sup> Includes postal savings, excludes certified and cashiers' checks outstanding and dividends unpaid.

<sup>4</sup> Includes certified and cashiers' checks and, in 1928, dividend checks outstanding.

Source of Tables 280 and 281: Comptroller of the Currency, Treasury Department.



# No. 281.—BANKS OTHER THAN NATIONAL: PRINCIPAL RESOURCES AND LIABILITIES—Continued

	1928					
	Total	State banks	Loan and trust companies	Private banks	Mutual savings banks	Stock savings banks
Number reporting.....	18,522	15,078	1,633	404	616	791
Resources.....	43,068,089	16,291,003	15,230,896	148,834	9,688,159	1,707,107
Loans and discounts <sup>1</sup> .....	21,437,341	9,484,872	8,303,479	86,896	5,511,918	1,050,176
Investments.....	11,624,366	3,542,177	3,874,652	28,959	3,750,591	427,967
Lawful reserve.....	1,632,437	802,235	519,697	2,583	—	27,917
Due from other banks.....	1,730,111	908,578	810,011	13,277	210,698	87,661
Exchanges for clearing-house checks and other cash items.....	789,766	215,137	551,587	867	1,726	20,149
Cash on hand.....	574,732	367,270	151,771	2,817	31,162	19,912
All other.....	2,238,986	970,414	1,019,596	13,420	182,064	73,192
Liabilities.....	43,068,089	16,291,003	15,230,896	148,834	9,688,159	1,707,107
Capital stock.....	1,931,666	1,051,182	803,328	8,278	—	68,878
Surplus fund.....	2,725,834	737,473	1,085,968	8,329	851,590	42,472
Undivided profits.....	688,924	285,926	215,538	1,775	148,386	17,099
Individual deposits <sup>2</sup> .....	34,944,265	12,725,135	10,874,563	110,586	8,672,823	1,561,218
Due to other banks <sup>3</sup> .....	1,792,625	623,887	1,155,329	1,575	373	11,456
Bills payable and discounts.....	764,961	399,365	349,923	11,989	510	3,141
All other.....	1,237,811	468,033	716,304	6,302	14,212	2,933

<sup>1</sup> Includes rediscounts and overdrafts

<sup>2</sup> Includes premiums on bonds

<sup>3</sup> Includes postal savings; excludes certified and cashiers' checks outstanding and dividends unpaid

<sup>4</sup> Includes certified and cashiers' checks and, in 1928, dividend checks outstanding

# No. 282.—SAVINGS DEPOSITS AND SAVINGS DEPOSITORS IN BANKS AND TRUST COMPANIES: CONTINENTAL UNITED STATES, ON OR ABOUT JUNE 30

NOTE.—Data include time certificates of deposit and postal savings. The number of savings depositors in State banks and trust companies, stock savings and private banks, is not shown for earlier years, as data are very incomplete. Figures for this class of banks and totals exclude 6 States in 1926 and 1927 and 4 in 1928 and include for a number of others incomplete or estimated data or data for an earlier year.

Year	Savings deposits (millions of dollars)				Savings depositors (thousands)			
	All banks	Mutual savings banks	State, etc., banks <sup>1</sup>	National banks	All banks	Mutual savings banks	State, etc., banks <sup>1</sup>	National banks
1910.....	6,835	( <sup>2</sup> )	( <sup>2</sup> )	1,014	—	( <sup>3</sup> )	—	2,687
1911.....	7,963	3,450	3,021	1,480	—	7,691	—	2,341
1912.....	8,404	3,609	3,200	1,536	—	7,880	—	2,675
1913.....	8,548	3,812	3,308	1,369	—	8,034	—	2,965
1914.....	8,712	3,910	3,348	1,454	—	7,901	—	( <sup>3</sup> )
1915.....	8,807	3,945	3,541	1,321	—	7,613	—	( <sup>3</sup> )
1916.....	9,459	4,102	3,641	1,716	—	7,917	—	( <sup>3</sup> )
1917.....	10,876	1,339	4,364	2,173	—	8,651	—	( <sup>3</sup> )
1918.....	11,535	4,382	4,817	2,336	—	8,326	—	( <sup>3</sup> )
1919.....	13,040	4,732	5,532	2,770	—	9,640	—	6,763
1920.....	15,311	5,058	6,793	3,493	—	9,079	—	7,680
1921.....	16,501	5,568	7,265	3,677	—	9,692	—	8,109
1922.....	17,579	5,818	7,687	4,074	—	9,687	—	8,873
1923.....	19,727	6,273	8,767	4,686	—	10,045	—	9,599
1924.....	21,189	6,693	9,337	5,158	—	10,384	—	10,068
1925.....	23,134	7,152	10,172	5,810	—	10,639	—	11,865
1926.....	24,696	7,525	10,993	6,178	46,762	10,570	23,212	12,570
1927.....	26,091	8,040	10,963	7,088	48,355	11,190	22,828	14,337
1928.....	28,413	8,668	11,695	8,050	53,188	11,643	25,364	16,151

<sup>1</sup> Includes State, stock savings, and private banks and trust companies.

<sup>2</sup> Separate data not available. Combined data for other than national banks included in total.

<sup>3</sup> Not available.

<sup>4</sup> Includes depositors in State banks in Ohio (2,337,000) and Idaho (39,000) not included in 1926 and 1927, which accounts for part of the increase.

Sources: Table 281, Comptroller of the Currency, Table 282, American Bankers' Association.

**No. 283.—SAVINGS DEPOSITS AND SAVINGS DEPOSITORS IN ALL BANKS  
AND TRUST COMPANIES: BY STATES, ON OR ABOUT JUNE 30**

Division and State	Savings deposits (millions of dollars)							Savings depositors (thousands), 1928
	1911 <sup>1</sup>	1916	1921	1925	1926	1927	1928	
<b>Continental U. S.</b> .....	7,963 1	9,459 3	16,500 7	23,134 1	24,696 2	26,090 9	28,413 0	53,188
<b>New England</b> .....	1,581 2	2,001 2	2,781 6	3,750 2	4,005 0	4,291 5	4,631 5	7,426
Maine.....	133 5	161 6	229 2	265 7	284 4	293 0	313 1	657
New Hampshire.....	95 2	118 8	151 7	190 5	201 7	213 8	228 2	382
Vermont.....	79 7	110 1	137 3	173 4	182 3	193 2	206 5	326
Massachusetts.....	833 2	<sup>2</sup> 1,097 5	<sup>2</sup> 1,507 7	2,139 5	2,275 7	2,439 6	2,652 7	4,140
Rhode Island.....	144 1	154 8	219 1	299 2	321 9	351 3	368 4	400
Connecticut.....	295 6	358 4	516 5	681 9	739 0	795 6	862 6	1,521
<b>Middle Atlantic</b> .....	2,882 1	3,108 9	5,724 0	8,773 6	9,382 5	10,228 7	11,252 8	18,215
New York.....	2,010 5	2,029 4	3,549 1	5,546 1	5,918 7	6,474 7	7,119 2	<sup>3</sup> 9,041
New Jersey.....	259 1	338 8	672 1	1,040 0	1,127 3	1,237 5	1,356 8	2,748
Pennsylvania.....	712 5	740 7	1,502 8	2,187 5	2,336 5	2,516 5	2,776 8	6,426
<b>East North Central</b> .....	1,460 0	1,709 9	2,973 0	4,074 3	4,544 6	4,742 3	5,229 2	12,585
Ohio.....	425 6	511 3	852 7	1,164 1	1,252 6	1,275 7	1,509 1	<sup>4</sup> 3,120
Indiana.....	142 9	106 1	200 8	259 5	<sup>5</sup> 388 1	404 5	409 6	<sup>6</sup> 396
Illinois.....	440 6	524 4	928 8	1,258 6	1,385 4	1,456 4	1,610 4	4,881
Michigan.....	270 2	361 8	617 3	939 0	1,028 5	1,093 9	1,164 9	<sup>7</sup> 2,694
Wisconsin.....	180 7	206 3	373 4	453 1	490 0	511 8	535 2	1,494
<b>West North Central</b> .....	727 8	978 8	1,729 5	1,978 1	1,945 0	1,908 9	1,903 7	4,069
Minnesota.....	165 8	263 2	475 6	536 6	531 9	525 8	532 7	1,102
Iowa.....	246 2	284 1	478 5	524 9	515 2	486 4	491 7	<sup>8</sup> 1,600
Missouri.....	129 2	166 6	284 6	372 2	384 8	326 6	412 5	<sup>9</sup> 346
North Dakota.....	32 4	67 7	102 0	95 9	92 9	80 4	76 0	104
South Dakota.....	43 3	57 6	116 1	102 1	85 6	65 8	68 6	92
Nebraska.....	67 4	79 3	<sup>10</sup> 162 6	213 2	208 3	199 5	192 1	<sup>7</sup> 462
Kansas.....	43 5	60 3	110 1	131 2	126 3	122 4	130 1	363
<b>South Atlantic</b> .....	395 8	511 2	1,048 0	1,418 7	1,499 5	1,540 8	1,659 0	4,011
Delaware.....	13 9	20 3	37 7	50 1	53 6	56 9	61 3	121
Maryland.....	131 6	169 0	275 9	385 8	390 9	435 7	500 9	985
Dist. of Columbia.....	7 1	18 5	50 0	80 8	80 2	88 8	96 3	334
Virginia.....	63 8	69 7	167 8	216 8	229 4	243 8	256 9	<sup>7</sup> 613
West Virginia.....	53 6	67 9	132 1	150 6	154 8	163 7	168 8	460
North Carolina.....	29 6	38 7	104 3	142 3	148 8	156 7	167 7	489
South Carolina.....	29 7	39 6	95 4	112 0	103 7	92 1	97 5	<sup>7</sup> 208
Georgia.....	44 0	55 6	118 4	132 0	150 6	139 8	157 0	<sup>7</sup> 453
Florida.....	19 3	31 9	66 4	148 3	<sup>5</sup> 178 5	163 3	152 6	348
<b>East South Central</b> .....	111 6	141 8	333 2	506 9	540 3	566 8	623 0	1,020
Kentucky.....	39 7	46 7	110 6	<sup>10</sup> 176 4	179 7	<sup>11</sup> 191 7	222 9	<sup>7</sup> 395
Tennessee.....	35 4	49 1	110 5	155 2	165 7	172 0	183 8	<sup>9</sup> 172
Alabama.....	19 5	24 2	59 1	93 1	102 1	105 7	114 8	<sup>7</sup> 321
Mississippi.....	<sup>12</sup> 17 0	21 8	53 0	82 2	92 7	97 4	101 5	<sup>7</sup> 132
<b>West South Central</b> .....	87 8	111 7	326 0	440 1	482 1	483 4	530 0	1,101
Arkansas.....	11 5	12 0	34 6	65 2	70 3	73 1	74 9	154
Louisiana.....	36 3	41 1	100 4	123 3	134 0	129 4	135 3	398
Oklahoma.....	15 2	16 1	82 6	87 3	92 9	95 1	106 3	<sup>7</sup> 154
Texas.....	24 8	42 5	108 4	164 3	164 9	185 8	213 5	395
<b>Mountain</b> .....	122 1	171 4	324 8	381 2	331 8	346 7	385 9	758
Montana.....	20 0	39 9	<sup>15</sup> 78 1	55 8	58 9	63 0	74 2	110
Idaho.....	9 1	11 8	24 5	25 8	27 8	29 7	33 9	74
Wyoming.....	8 1	10 5	21 0	20 9	21 6	24 2	24 7	45
Colorado.....	49 2	59 9	103 0	110 3	107 0	108 9	116 8	<sup>9</sup> 190
New Mexico.....	5 7	8 0	14 0	7 3	7 5	8 5	10 0	43
Arizona.....	3 8	4 9	21 0	26 4	25 2	27 3	31 9	59
Utah.....	21 4	33 7	49 9	61 2	64 4	66 8	72 8	213
Nevada.....	4 8	2 7	13 3	17 5	19 4	20 3	21 6	26
<b>Pacific</b> .....	495 0	724 4	1,280 7	1,863 3	1,985 3	2,083 7	2,197 5	4,005
Washington.....	59 1	87 5	141 4	181 3	192 4	199 9	213 1	494
Oregon.....	27 9	39 1	78 8	105 9	113 8	115 7	123 1	295
California.....	<sup>12</sup> 408 0	<sup>5</sup> 597 8	1,060 5	1,576 1	1,679 1	1,768 1	1,861 3	3,216

<sup>1</sup> Includes demand certificates of deposit for national banks.<sup>2</sup> Data for mutual savings banks as of Oct. 31, 1916 and 1921.<sup>3</sup> Includes 1927 data for all except mutual savings and national banks.<sup>4</sup> Includes 1927 figures for State banks, 1925 for mutual savings.<sup>5</sup> Includes demand certificates of deposit for banks other than national.<sup>6</sup> National and mutual savings banks only, data included for the latter being 1926 figures.<sup>7</sup> Data for banks other than national are for the latest year available as follows: Michigan, Nebraska, Virginia, Georgia, and Oklahoma, 1927; South Carolina and Alabama, 1926; Kentucky, 1923; Mississippi, 1925.<sup>8</sup> Includes national and stock savings banks only, data for the latter being 1925 estimates.<sup>9</sup> National banks only. <sup>10</sup> Includes 1924 data for State banks. <sup>11</sup> Includes 1925 data for all except national.<sup>12</sup> Includes commercial deposits in State banks.<sup>13</sup> Data as of November, 1920, for State banks.<sup>14</sup> Includes 1926 data for all except national.

Source. American Bankers' Association.

**No. 284.—SAVINGS BANKS: NUMBER OF DEPOSITORS AND AMOUNT OF SAVINGS DEPOSITS, CONTINENTAL UNITED STATES, 1820 TO 1910**

NOTE.—Data for later years are as of June 30 or about June 30. In earlier years reports were of various dates. Prior to 1900 data include both mutual and stock savings banks, beginning 1900 they are for mutual savings banks only, which in that year had about 90 per cent of the savings deposits in all savings banks. For figures for later years and also savings deposits in all classes of banks, see Table 282.

[Depositors in thousands, deposits in millions and tenths of millions of dollars]

Year	Depositors	Savings deposits	Year	Depositors	Savings deposits	Year	Depositors	Savings deposits
1820.....	9	1 1	1885.....	3, 071	1, 095 2	1898.....	5, 239	2, 027 2
1830.....	38	7 0	1886.....	3, 159	1, 141 5	1899.....	5, 524	2, 179 5
1840.....	79	14 1	1887.....	3, 418	1, 235 2	1900.....	5, 370	2, 134 5
1850.....	251	43 4	1888.....	3, 838	1, 364 2	1901.....	5, 612	2, 380 3
1860.....	694	149 3	1889.....	4, 022	1, 425 3	1902.....	5, 871	2, 380 2
1865.....	981	242 6	1890.....	4, 259	1, 524 8	1903.....	6, 117	2, 512 5
1870.....	1, 631	549 9	1891.....	4, 533	1, 623 1	1904.....	6, 286	2, 602 0
1875.....	2, 360	924 0	1892.....	4, 782	1, 712 8	1905.....	6, 464	2, 736 5
1880.....	2, 336	819 1	1893.....	4, 831	1, 785 2	1906.....	6, 753	2, 906 7
1881.....	2, 529	892 0	1894.....	4, 778	1, 748 0	1907.....	7, 071	3, 055 3
1882.....	2, 710	966 8	1895.....	4, 876	1, 810 6	1908.....	7, 137	3, 065 7
1883.....	2, 876	1, 024 9	1896.....	5, 065	1, 907 2	1909.....	7, 205	3, 144 6
1884.....	3, 015	1, 073 3	1897.....	5, 201	1, 939 4	1910.....	7, 482	3, 360 6

Source: Comptroller of the Currency, Treasury Department.

**NO. 285.—MUTUAL SAVINGS BANKS: NUMBER OF DEPOSITORS AND AMOUNT OF DEPOSITS ON OR ABOUT JUNE 30**

NOTE.—There are no mutual savings banks in States not shown.

[Deposits in thousands of dollars]

Division and State	Depositors			Deposits		
	1926	1927	1928	1926	1927	1928
Continental United States.....	10, 950, 062	11, 189, 978	11, 643, 335	7, 525, 189	8, 039, 784	8, 668, 090
New England.....	4, 518, 141	4, 582, 283	4, 706, 800	2, 726, 158	2, 888, 647	3, 126, 649
Maine.....	231, 457	229, 536	229, 167	110, 228	110, 541	113, 663
New Hampshire.....	245, 083	248, 551	1 331, 672	148, 667	156, 273	187, 481
Vermont.....	126, 599	126, 892	126, 883	68, 220	92, 082	97, 126
Massachusetts.....	2, 878, 058	2, 910, 872	2, 931, 837	1, 701, 853	1, 808, 760	1, 955, 956
Rhode Island.....	190, 336	194, 147	199, 374	143, 647	153, 522	165, 650
Connecticut.....	846, 608	872, 285	887, 667	533, 533	567, 469	606, 773
Middle Atlantic.....	5, 618, 251	5, 810, 186	6, 091, 933	4, 329, 112	4, 649, 031	5, 005, 471
New York.....	4, 635, 134	4, 777, 761	4, 938, 635	3, 738, 426	4, 036, 074	4, 301, 347
New Jersey.....	411, 019	423, 305	501, 937	218, 815	241, 789	281, 156
Pennsylvania.....	572, 098	609, 120	651, 361	371, 871	371, 168	422, 968
East North Central.....	146, 904	146, 904	148, 921	109, 080	117, 548	129, 164
Ohio.....	<sup>2</sup> 97, 838	<sup>2</sup> 97, 838	<sup>2</sup> 97, 838	82, 310	88, 700	97, 290
Indiana.....	33, 374	<sup>3</sup> 33, 374	<sup>3</sup> 33, 374	20, 377	21, 928	24, 182
Wisconsin.....	15, 692	<sup>3</sup> 15, 692	17, 709	6, 393	6, 920	7, 692
West North Central.....	131, 035	137, 616	140, 023	61, 027	64, 779	69, 594
Minnesota.....	131, 035	137, 616	140, 023	61, 027	64, 779	69, 594
South Atlantic.....	358, 812	362, 771	398, 886	180, 881	194, 037	211, 975
Delaware.....	46, 426	46, 921	47, 450	22, 590	23, 404	24, 400
Maryland.....	312, 486	315, 850	351, 406	158, 291	170, 632	187, 575
Pacific.....	176, 819	150, 218	156, 972	118, 931	125, 742	125, 237
Washington.....	<sup>2</sup> 106, 479	74, 173	84, 923	42, 072	48, 210	50, 416
California.....	70, 340	72, 045	72, 049	76, 859	77, 532	74, 821

<sup>1</sup> Includes depositors in trust companies.

<sup>2</sup> 1925 figures.

<sup>3</sup> 1926 figures.

Source: American Bankers' Association.

## No. 286.—SUMMARY OF POSTAL SAVINGS BUSINESS, 1911 TO 1928

NOTE.—In addition to main offices there were 786 branches and stations in operation on June 30, 1928. Data include Alaska, Hawan, Porto Rico, and Virgin Islands

Year ended June 30--	Offices in operation at close of period	Deposits made during year	Withdrawals made during year	Balance to credit of depositors at close of period	Number of depositors at close of period	Savings stamps			Balance on deposit in banks at close of period
						Sold during year	Re-deemed during year	Out-standing at close of period	
		Dollars	Dollars	Dollars		Dollars	Dollars	Dollars	Dollars
1911.....	400	778, 129	100, 984	677, 145	11, 918	4, 828	2, 938	1, 888	571, 671
1912.....	9, 907	30, 732, 357	11, 172, 418	20, 237, 084	243, 801	166, 479	134, 346	34, 021	18, 596, 042
1913.....	12, 159	41, 701, 383	28, 119, 597	33, 818, 870	331, 006	161, 291	154, 734	40, 528	31, 512, 337
1914.....	9, 639	47, 815, 249	38, 119, 848	43, 444, 271	388, 511	150, 390	141, 904	49, 014	40, 919, 673
1915.....	8, 832	70, 314, 838	48, 074, 421	65, 684, 708	525, 414	157, 424	150, 232	56, 206	60, 056, 319
1916.....	7, 701	76, 775, 868	56, 440, 691	86, 019, 885	602, 937	181, 173	168, 833	68, 546	80, 775, 586
1917.....	6, 423	132, 112, 217	86, 177, 406	131, 954, 696	674, 728	171, 392	168, 600	71, 338	126, 840, 820
1918.....	5, 928	116, 893, 259	100, 376, 456	148, 471, 499	612, 188	117, 864	130, 133	59, 068	140, 658, 608
1919.....	5, 716	136, 690, 122	117, 838, 361	167, 323, 260	565, 509	67, 796	70, 767	56, 097	135, 942, 981
1920.....	5, 583	139, 208, 954	149, 255, 892	157, 276, 322	508, 508	72, 066	69, 043	59, 120	126, 426, 019
1921.....	5, 554	133, 574, 840	138, 461, 259	152, 389, 903	466, 109	60, 024	62, 923	56, 221	48, 668, 108
1922.....	6, 020	96, 507, 716	111, 161, 210	137, 736, 439	420, 242	73, 672	68, 188	61, 704	44, 160, 417
1923.....	6, 047	88, 008, 160	94, 770, 299	131, 671, 300	417, 902	78, 197	76, 671	63, 230	61, 844, 062
1924.....	5, 995	91, 932, 846	93, 790, 011	132, 814, 135	412, 584	68, 606	68, 945	62, 891	96, 369, 974
1925.....	5, 896	89, 707, 991	90, 348, 915	132, 173, 211	402, 325	51, 888	53, 547	61, 232	97, 898, 486
1926.....	5, 853	90, 751, 051	88, 745, 704	134, 178, 558	399, 305	44, 050	46, 654	58, 628	101, 175, 841
1927.....	5, 896	103, 606, 898	90, 426, 172	147, 359, 254	411, 394	37, 563	37, 790	58, 400	114, 597, 400
1928.....	5, 897	96, 386, 499	91, 602, 404	152, 143, 349	412, 250	34, 145	34, 874	57, 672	118, 714, 519

## No. 287.—POSTAL SAVINGS DEPOSITS AND DEPOSITORS: BY STATES

State or Territory	Number of depositors June 30, 1928	Balance to credit of depositors, June 30—		State or Territory	Number of depositors June 30, 1928	Balance to credit of depositors, June 30—	
		1927	1928			1927	1928
United States <sup>1</sup>	412, 250	Dollars 147, 359, 254	Dollars 152, 143, 349	Montana.....	11, 071	Dollars 5, 540, 944	Dollars 6, 294, 396
Alabama.....	3, 694	363, 195	355, 135	Nebraska.....	1, 653	422, 413	719, 324
Alaska.....	843	673, 739	704, 365	Nevada.....	1, 003	343, 235	361, 868
Arizona.....	3, 150	1, 210, 653	1, 281, 970	New Hampshire.....	1, 219	371, 180	340, 257
Arkansas.....	1, 220	385, 896	597, 295	New Jersey.....	13, 478	2, 775, 937	2, 386, 029
California.....	9, 712	2, 927, 786	3, 165, 254	New Mexico.....	3, 158	1, 340, 875	1, 543, 375
Colorado.....	8, 472	3, 678, 951	3, 880, 436	New York.....	121, 536	39, 077, 850	32, 223, 493
Connecticut.....	4, 597	1, 422, 918	1, 256, 961	North Carolina.....	1, 104	216, 200	389, 830
Delaware.....	578	112, 801	106, 154	North Dakota.....	2, 982	1, 067, 638	1, 635, 747
Dist. of Columbia.....	1, 771	368, 569	361, 247	Ohio.....	7, 537	2, 963, 507	3, 042, 209
Florida.....	19, 980	4, 304, 816	6, 038, 135	Oklahoma.....	9, 416	3, 851, 186	5, 014, 072
Georgia.....	4, 381	999, 407	1, 288, 862	Oregon.....	7, 890	2, 607, 882	3, 356, 391
Hawaii.....	180	23, 595	21, 505	Pennsylvania.....	29, 639	10, 207, 493	9, 400, 371
Idaho.....	6, 772	2, 538, 111	2, 757, 062	Porto Rico.....	1, 595	159, 668	153, 072
Illinois.....	14, 570	7, 023, 067	6, 861, 211	Rhode Island.....	2, 305	567, 250	490, 001
Indiana.....	2, 539	885, 473	1, 134, 888	South Carolina.....	3, 103	1, 028, 135	1, 279, 377
Iowa.....	12, 627	7, 010, 271	8, 324, 547	South Dakota.....	7, 187	3, 321, 471	4, 088, 073
Kansas.....	6, 086	2, 444, 510	3, 238, 258	Tennessee.....	1, 291	424, 897	487, 457
Kentucky.....	1, 066	261, 009	237, 197	Texas.....	8, 066	2, 796, 445	3, 755, 456
Louisiana.....	1, 099	394, 211	384, 277	Utah.....	1, 115	616, 223	626, 604
Maine.....	534	135, 412	132, 655	Vermont.....	225	62, 581	63, 992
Maryland.....	628	178, 044	152, 011	Virginia.....	1, 226	242, 854	219, 463
Massachusetts.....	16, 010	6, 894, 905	6, 407, 355	Virgin Islands.....	79	11, 792	9, 486
Michigan.....	5, 401	2, 188, 637	2, 114, 289	Washington.....	14, 680	6, 773, 291	6, 871, 064
Minnesota.....	14, 185	5, 944, 158	7, 375, 548	West Virginia.....	757	467, 940	495, 582
Mississippi.....	452	97, 550	117, 413	Wisconsin.....	2, 944	1, 183, 933	1, 393, 657
Missouri.....	11, 427	4, 606, 486	5, 183, 199	Wyoming.....	3, 437	1, 858, 175	1, 956, 474

<sup>1</sup> Including Alaska, Hawaii, Porto Rico, and Virgin Islands

Source of Tables 286 and 287: Report of the Postmaster General on the Postal Savings System.

# No. 288.—BUILDING AND LOAN ASSOCIATIONS: NUMBER, MEMBERSHIP, AND ASSETS

NOTE—Data for some States are compiled by fiscal years

Calendar year (see note)	Associa- tions	Members	Assets (1,000 dollars)	Calendar year (see note)	Associa- tions	Members	Assets (1,000 dollars)
1895	5,973	1,545,129	621,700	1917	7,269	3,838,612	1,769,142
1900	5,490	1,495,136	614,119	1918	7,484	4,011,491	1,898,511
1905	5,326	1,686,611	646,765	1919	7,788	4,289,426	2,129,820
1908	5,629	1,959,579	796,999	1920	8,624	5,029,781	2,531,820
1909	5,737	2,029,927	860,783	1921	9,255	5,869,888	2,890,767
1910	5,937	2,216,912	945,569	1922	10,069	6,364,144	3,342,531
1911	6,113	2,355,066	1,040,308	1923	10,744	7,202,850	3,912,940
1912	6,273	2,516,936	1,137,601	1924	11,841	8,554,352	4,765,937
1913	6,429	2,836,433	1,248,479	1925	12,403	9,886,997	5,509,176
1914	6,616	3,103,935	1,357,708	1926	12,626	10,665,705	6,334,104
1915	6,806	3,334,849	1,481,206	1927	12,804	11,336,261	7,178,762
1916	7,072	3,563,432	1,598,628	1928	12,666	11,995,905	8,016,634

  

State	Associations			Members			Assets (thousands of dollars)		
	1916	1926	1927	1916	1926	1927	1916	1926	1927
Alabama <sup>2</sup>		320	48		20,000	54,700		15,000	43,601
Arizona <sup>1</sup>		6	6		3,925	4,400		1,682	1,912
Arkansas	41	71	73	22,860	53,044	58,729	10,174	32,030	35,830
California	90	176	191	42,250	223,440	261,232	32,794	190,107	241,797
Colorado	44	64	62	10,200	85,144	119,631	6,689	35,186	42,477
Connecticut	22	38	38	13,964	35,896	44,504	4,259	18,291	20,614
Delaware <sup>2</sup>		41	42		13,250	17,750		8,844	10,212
Dist. of Columbia	18	22	22	38,008	59,269	63,768	22,145	50,729	57,192
Florida <sup>2</sup>		73	115		27,000	28,500		39,358	40,810
Idaho		12	12		4,250	4,700		2,335	2,739
Illinois	649	881	910	230,667	810,000	861,000	105,478	355,509	388,098
Indiana	350	399	404	192,375	382,123	404,521	72,294	217,904	214,210
Iowa	50	74	74	33,035	71,800	53,049	9,639	40,772	43,497
Kansas	71	153	152	61,027	139,393	194,200	23,551	107,315	117,980
Kentucky	118	147	151	61,915	133,400	141,900	25,513	74,704	83,510
Louisiana	69	100	105	53,030	165,332	190,650	24,549	154,187	174,818
Maine	38	38	38	14,584	26,171	29,180	6,437	17,438	19,549
Maryland <sup>2</sup>		1,210	1,210		330,000	330,000		200,000	210,000
Massachusetts	183	220	221	236,760	466,492	497,220	113,306	425,511	478,005
Michigan	70	83	78	63,733	192,070	206,774	31,379	112,888	129,799
Minnesota	66	83	84	20,630	69,618	80,956	8,353	28,643	32,423
Mississippi		35	36		18,600	21,800		13,016	15,418
Missouri	157	243	251	50,404	215,000	229,305	23,544	139,462	159,774
Montana	16	31	30	2,737	37,500	41,500	1,640	13,739	16,338
Nebraska	72	83	83	94,927	218,807	235,581	47,918	153,128	156,214
New Hampshire	20	28	28	7,689	15,115	16,444	3,013	9,234	10,397
New Jersey	756	1,473	1,536	299,913	1,084,381	1,168,980	156,127	760,068	886,168
New Mexico	13	18	18	3,720	3,500	7,150	1,542	3,250	3,833
New York	254	309	313	200,314	504,008	555,242	79,630	297,707	349,534
North Carolina	148	240	235	42,400	96,360	102,000	15,905	85,715	91,600
North Dakota	10	18	19	5,600	15,300	16,800	2,747	7,788	8,859
Ohio	685	841	827	466,862	2,147,275	2,282,693	270,553	928,382	1,035,429
Oklahoma	37	90	89	13,200	167,410	184,810	4,200	103,343	116,119
Oregon <sup>2</sup>		42	40		38,200	44,700		18,280	21,914
Pennsylvania	1,989	3,460	4,427	625,003	1,800,000	1,776,104	298,827	1,150,000	1,245,968
Rhode Island	7	7	7	10,114	31,819	34,437	5,361	19,579	22,636
South Carolina <sup>2</sup>		152	150		26,800	28,000		22,782	23,000
South Dakota	13	26	24	8,880	7,015	7,705	3,514	5,000	5,497
Tennessee	14	24	32	5,348	11,275	14,775	3,321	6,716	9,127
Texas	27	138	143	5,875	124,951	145,880	1,942	70,805	92,632
Utah <sup>2</sup>		24	24		96,284	92,921		30,864	37,252
Vermont	4	9	10	493	3,805	4,458	236	2,237	2,517
Virginia		79	87		51,500	56,300		44,557	50,150
Washington	34	72	72	43,000	249,338	268,404	12,078	89,001	101,252
West Virginia	47	60	60	20,500	54,500	60,200	7,750	28,704	30,128
Wisconsin	77	171	182	45,891	229,165	261,685	16,874	182,382	217,564
Wyoming <sup>2</sup>		30	14		14,000	26,123		8,000	13,137
Other States <sup>2</sup>	840	22	31	322,524	5,900	7,400	146,343	1,909	3,024

<sup>1</sup> Total membership of local associations only, does not include national associations, membership of which declined to 44,484 in 1905, now extinct

<sup>2</sup> Included in "Other States" in 1916.

<sup>3</sup> Estimated

<sup>4</sup> Including depositors.

Source. United States League of Building and Loan Associations.

**No. 289.—CERTAIN MAJOR ITEMS OF SAVINGS OF THE UNITED STATES**

NOTE.—In millions of dollars. Increase in savings deposits is for fiscal years ended June 30, increase in assets of building and loan associations includes figures for calendar years for some States and fiscal years for others, other data are for calendar years. The last column should not be added to other items, as there is much duplication between it and them. For example, savings banks and life-insurance companies both invest their assets in the securities of corporations. On the other hand, many forms of savings, some of large amount, are not listed.

Year	Increase in savings deposits, all banks <sup>1</sup>	Increase in assets of building and loan associations	Premiums paid to life-insurance companies, less operating expenses			Additions to surpluses of corporations <sup>2</sup>	New capital issues
			Total	Ordinary companies	Industrial companies		
1913.....	144	111	524	374	150		
1918.....	659	129	706	502	203		
1919.....	1,506	228	840	566	274		3,588
1920.....	2,274	408	931	610	321		3,635
1921.....	1,187	356	1,088	719	369		3,577
1922.....	1,078	452	1,198	779	419	1,747	4,304
1923.....	2,148	600	1,322	833	489	2,528	4,304
1924.....	1,462	823	1,514	947	567	1,575	5,593
1925.....	1,945	743	1,694	1,046	647	2,937	6,220
1926.....	1,562	825	1,873	1,145	729	2,335	6,344
1927.....	1,395	844	2,079	1,209	810		7,776
1928.....	2,042						8,050

<sup>1</sup> Includes postal savings funds deposited in banks

<sup>2</sup> Net profit less cash dividends and income and profits tax as shown on income tax returns.

Sources. See sources of Tables 198, 282, 298, 317, and 328

**No. 290.—FEDERAL AND JOINT-STOCK LAND BANKS: NET MORTGAGE LOANS OUTSTANDING**

NOTE.—All figures in thousands of dollars. Figures do not include the principal of delinquent installments. The principal of payments made in advance of maturity has not been deducted as in Tables 291 and 295. Figures for joint-stock land banks include loans of three banks in receivership.

Dec 31—	Federal land banks	Joint-stock land banks	Dec 31—	Federal land banks	Joint-stock land banks
1918.....	156,214	8,384	1924.....	927,568	446,429
1919.....	293,595	60,038	1925.....	1,005,685	545,559
1920.....	349,679	77,959	1926.....	1,077,819	632,476
1921.....	432,523	85,017	1927.....	1,155,644	669,798
1922.....	639,486	218,775	1928.....	1,194,170	656,516
1923.....	799,597	392,639			

**No. 291.—FEDERAL LAND BANKS: PRINCIPAL ASSETS AND LIABILITIES OF EACH BANK, DECEMBER 31, 1928**

[All figures in thousands of dollars]

Bank	Assets					Liabilities			
	Total	Net mortgage loans <sup>1</sup>	U S securities	Accrued interest	Cash on hand and in banks	Capital stock	Reserves and undivided profits	Farm loan bonds outstanding <sup>2</sup>	Accrued interest
Total.....	1,295,246	1,193,846	28,004	18,527	16,218	64,754	17,729	1,174,543	18,536
Springfield.....	55,454	50,113	2,343	805	944	2,989	469	50,784	834
Baltimore.....	73,897	69,158	1,405	1,246	1,526	3,746	949	67,6d1	1,115
Columbia.....	73,561	64,919	3,431	1,064	1,327	3,520	760	67,560	883
Louisville.....	129,195	122,990	823	2,089	2,118	6,561	2,927	117,304	1,793
New Orleans.....	122,227	110,589	3,065	1,890	2,986	6,129	1,938	111,836	1,855
St. Louis.....	109,377	102,534	2,703	1,609	1,446	5,477	810	101,241	1,427
St. Paul.....	138,775	125,551	3,808	1,740	1,304	6,858	1,257	127,854	2,023
Omaha.....	171,431	163,412	3,848	2,487	466	8,672	3,048	156,495	2,543
Wichita.....	96,187	90,412	1,219	1,280	1,283	4,728	1,538	87,895	1,420
Houston.....	153,662	146,781	2,749	2,180	1,330	7,610	3,436	139,514	2,177
Berkeley.....	56,505	52,105	2,361	825	656	3,072	567	51,848	766
Spokane.....	105,175	95,282	250	1,351	832	5,192	40	94,551	1,698

<sup>1</sup> Less principal of delinquent installments and payments made in advance of maturity.

<sup>2</sup> Unmatured.

Source of Tables 290 and 291. Federal Farm Loan Board.

**No. 292.—FEDERAL LAND BANKS: LOANS SUBMITTED FOR BOND ISSUE FROM ORGANIZATION, AUGUST 7, 1916, TO DECEMBER 31, 1928**

[All money figures in thousands of dollars]

Bank and State	Number of loans	Amount loaned by banks	Land mortgaged (acre)	Appraised valuations		
				Total	Land	Buildings
<b>Total</b>	<b>471, 024</b>	<b>1, 411, 672</b>	<b>55, 715, 505</b>	<b>4, 022, 018</b>	<b>2, 169, 049</b>	<b>1, 532, 969</b>
<b>Springfield</b>	<b>19, 564</b>	<b>62, 366</b>	<b>2, 472, 700</b>	<b>202, 760</b>	<b>108, 848</b>	<b>93, 912</b>
Maine	3, 211	8, 712	415, 600	28, 679	17, 298	11, 381
New Hampshire	574	1, 530	91, 682	5, 152	2, 687	2, 465
Vermont	1, 787	1, 783	285, 788	15, 321	8, 634	6, 687
Massachusetts	1, 559	5, 443	192, 082	17, 412	9, 180	8, 232
Rhode Island	14	591	16, 024	1, 536	1, 044	862
Connecticut	1, 601	5, 449	149, 703	16, 780	8, 712	8, 068
New York	8, 810	29, 771	1, 188, 808	98, 271	50, 475	47, 819
New Jersey	1, 640	6, 082	132, 937	19, 206	10, 807	8, 399
<b>Baltimore</b>	<b>32, 278</b>	<b>88, 048</b>	<b>4, 100, 970</b>	<b>239, 903</b>	<b>173, 049</b>	<b>66, 854</b>
Pennsylvania	7, 653	20, 726	830, 155	60, 373	36, 895	23, 478
Virginia	13, 812	36, 826	2, 009, 703	103, 332	75, 307	28, 025
Maryland	1, 273	5, 279	198, 578	27, 095	10, 076	4, 444
West Virginia	4, 917	9, 621	657, 299	11, 620	20, 317	6, 747
Delaware	160	531	18, 028	1, 449	953	496
Porto Rico	4, 463	13, 062	387, 326	33, 134	20, 471	3, 663
<b>Columbia</b>	<b>37, 620</b>	<b>83, 171</b>	<b>5, 452, 813</b>	<b>228, 300</b>	<b>175, 442</b>	<b>52, 858</b>
North Carolina	12, 685	23, 840	1, 338, 202	67, 721	49, 975	17, 746
South Carolina	7, 715	21, 369	1, 227, 544	59, 350	45, 046	14, 304
Georgia	12, 509	29, 055	2, 251, 066	77, 298	61, 124	16, 173
Florida	4, 711	8, 906	635, 401	23, 932	19, 298	4, 634
<b>Louisville</b>	<b>45, 473</b>	<b>145, 575</b>	<b>5, 147, 930</b>	<b>387, 188</b>	<b>306, 095</b>	<b>81, 093</b>
Tennessee	12, 400	30, 056	1, 505, 914	79, 187	63, 958	15, 230
Kentucky	10, 199	32, 007	1, 284, 494	88, 905	66, 770	20, 135
Indiana	15, 008	53, 628	1, 798, 261	140, 574	114, 365	26, 209
Ohio	7, 596	29, 884	757, 261	80, 522	61, 002	19, 520
<b>New Orleans</b>	<b>68, 871</b>	<b>135, 195</b>	<b>11, 052, 454</b>	<b>382, 025</b>	<b>288, 082</b>	<b>93, 993</b>
Alabama	25, 785	46, 037	3, 933, 397	129, 279	96, 439	32, 839
Louisiana	14, 785	35, 695	2, 371, 929	99, 982	76, 921	23, 061
Mississippi	28, 301	53, 460	4, 767, 153	152, 764	114, 671	38, 093
<b>St. Louis</b>	<b>37, 673</b>	<b>122, 007</b>	<b>4, 653, 447</b>	<b>311, 864</b>	<b>266, 402</b>	<b>45, 462</b>
Illinois	9, 308	53, 988	9, 403, 251	111, 058	121, 156	19, 662
Missouri	11, 225	38, 231	1, 514, 476	96, 980	80, 737	16, 193
Arkansas	17, 140	29, 785	2, 138, 720	73, 826	64, 459	9, 367
<b>St. Paul</b>	<b>43, 104</b>	<b>159, 627</b>	<b>7, 087, 813</b>	<b>454, 112</b>	<b>320, 438</b>	<b>133, 674</b>
Minnesota	11, 399	50, 376	1, 558, 712	139, 629	102, 783	36, 846
Wisconsin	9, 186	35, 471	1, 026, 142	100, 894	68, 127	32, 768
Michigan	11, 327	29, 874	1, 617, 982	90, 999	56, 438	33, 661
North Dakota	11, 192	43, 906	2, 864, 477	123, 489	93, 090	30, 400
<b>Omaha</b>	<b>32, 338</b>	<b>192, 666</b>	<b>8, 718, 420</b>	<b>562, 370</b>	<b>491, 982</b>	<b>70, 388</b>
Iowa	11, 316	89, 971	1, 336, 380	253, 759	200, 528	53, 231
Nebraska	10, 839	58, 056	4, 219, 070	208, 264	188, 008	20, 256
South Dakota	7, 510	36, 406	1, 840, 918	97, 442	83, 896	13, 605
Wyoming	2, 673	8, 250	1, 302, 072	22, 906	19, 609	3, 297
<b>Wichita</b>	<b>34, 735</b>	<b>108, 600</b>	<b>10, 904, 999</b>	<b>301, 559</b>	<b>249, 154</b>	<b>52, 375</b>
Kansas	10, 466	42, 242	2, 729, 475	113, 741	94, 472	19, 269
Oklahoma	8, 663	24, 145	1, 634, 825	64, 121	51, 086	10, 535
Colorado	9, 896	30, 073	3, 540, 721	87, 928	71, 938	15, 991
New Mexico	5, 705	12, 140	2, 994, 278	35, 230	28, 658	6, 581
<b>Houston</b>	<b>62, 461</b>	<b>189, 292</b>	<b>15, 314, 044</b>	<b>436, 904</b>	<b>369, 677</b>	<b>67, 227</b>
Texas	62, 461	189, 292	15, 314, 044	436, 904	369, 677	67, 227
<b>Berkeley</b>	<b>17, 523</b>	<b>65, 420</b>	<b>2, 082, 862</b>	<b>170, 780</b>	<b>143, 425</b>	<b>27, 355</b>
California	9, 155	37, 969	1, 125, 393	102, 275	83, 719	18, 556
Utah	5, 796	17, 676	587, 064	42, 595	37, 179	5, 126
Nevada	389	2, 811	178, 136	7, 108	6, 621	1, 087
Arizona	1, 683	6, 932	192, 269	19, 112	19, 595	2, 696
<b>Spokane</b>	<b>39, 384</b>	<b>121, 705</b>	<b>7, 768, 253</b>	<b>344, 283</b>	<b>276, 507</b>	<b>67, 776</b>
Idaho	8, 171	29, 079	1, 140, 238	78, 195	65, 085	12, 211
Montana	9, 153	27, 729	3, 687, 828	79, 413	64, 777	14, 666
Oregon	7, 622	25, 204	1, 465, 379	68, 473	59, 716	11, 707
Washington	14, 438	39, 693	1, 474, 808	118, 192	88, 999	29, 193

**No. 293.—FEDERAL LAND BANKS: PURPOSES OF LOANS SUBMITTED FOR BOND ISSUE FROM ORGANIZATION, AUGUST 7, 1916, TO DECEMBER 31, 1928**

NOTE.—For total amount of loans by districts see Table 292

[Amounts in thousands of dollars]

Bank	Purchase of land		Buildings and improvements		Equipments, fertilizer, livestock, and irrigation		National farm-loan association stock		To pay mortgages		To pay other debts	
	Amount	Per cent	Amount	Per cent	Amount	Per cent	Amount	Per cent	Amount	Per cent	Amount	Per cent
<b>Total</b> .....	143, 064	10	72, 445	5	41, 537	3	72, 574	5	957, 314	66	164, 738	11
Springfield.....	10, 043	16	3, 049	5	1, 437	2	3, 118	5	41, 364	66	3, 355	5
Baltimore.....	7, 464	9	5, 001	6	2, 946	3	4, 300	5	59, 866	70	6, 470	8
Columbia.....	4, 454	5	5, 841	7	1, 691	2	4, 158	5	63, 055	76	3, 972	5
Louisville.....	21, 114	15	7, 409	5	3, 478	2	7, 281	5	86, 407	59	19, 884	14
New Orleans.....	7, 245	5	12, 203	9	4, 838	4	6, 758	5	91, 779	68	12, 372	9
St. Louis.....	11, 942	10	5, 107	4	2, 362	2	6, 100	5	85, 903	70	10, 593	9
St. Paul.....	10, 513	7	7, 659	5	2, 003	1	7, 980	5	111, 244	70	20, 228	13
Omaha.....	25, 871	13	4, 116	2	4, 746	3	9, 631	5	110, 630	62	28, 671	15
Wichita.....	12, 181	11	4, 094	4	5, 295	5	5, 430	5	63, 184	58	18, 416	17
Houston.....	19, 589	12	6, 460	4	5, 186	3	3, 463	5	113, 539	67	16, 055	9
Berkeley.....	3, 938	6	4, 451	7	2, 578	4	3, 267	5	43, 232	66	7, 955	12
Spokane.....	8, 711	7	7, 057	6	4, 976	4	6, 086	5	78, 112	64	16, 764	14

**No. 294.—NATIONAL FARM LOAN ASSOCIATIONS: LOANS MADE FROM ORGANIZATION TO DECEMBER 31, 1928**

NOTE.—4,967 associations were chartered to December 31, 1928, 297 of which were canceled

District and State	Number of associations operating	Loans <sup>1</sup>			District and State	Number of associations operating	Loans <sup>1</sup>		
		Number	Amount (1,000 dollars)	Average (dollars)			Number	Amount (1,000 dollars)	Average (dollars)
<b>Total</b> .....	4, 670	482, 432	1, 541, 435	3, 195	District No. 6.				
District No. 1					Illinois.....	141	9, 497	56, 578	5, 958
Maine.....	20	3, 268	8, 920	2, 730	Missouri.....	101	11, 408	39, 575	3, 489
New Hampshire.....	8	685	1, 568	2, 290	Arkansas.....	118	17, 410	31, 116	1, 787
Vermont.....	13	1, 628	4, 885	3, 001	District No. 7.				
Massachusetts.....	14	1, 892	5, 551	2, 934	North Dakota.....	196	11, 576	46, 359	4, 005
Rhode Island.....	2	186	592	3, 184	Minnesota.....	180	11, 973	55, 783	4, 639
Connecticut.....	15	1, 638	5, 570	3, 400	Wisconsin.....	137	9, 415	37, 878	4, 023
New York.....	50	8, 991	30, 359	3, 376	Michigan.....	134	11, 785	31, 631	2, 684
New Jersey.....	19	1, 581	6, 256	3, 957	District No. 8.				
District No. 2:					Iowa.....	156	11, 936	98, 895	8, 285
Virginia.....	87	13, 576	36, 384	2, 680	Nebraska.....	146	11, 204	63, 271	5, 617
Maryland.....	20	1, 266	5, 294	4, 181	South Dakota.....	99	7, 688	39, 404	5, 125
Delaware.....	3	153	512	3, 344	Wyoming.....	37	2, 733	8, 775	3, 211
Pennsylvania.....	55	7, 542	20, 119	2, 668	District No. 9				
West Virginia.....	36	4, 856	9, 475	1, 951	Kansas.....	152	11, 542	48, 655	4, 215
Porto Rico.....	4	5, 445	13, 315	2, 929	Oklahoma.....	128	9, 746	27, 207	2, 792
District No. 3:					Colorado.....	118	10, 364	32, 113	3, 098
North Carolina.....	149	12, 898	25, 211	1, 955	New Mexico.....	63	6, 086	13, 473	2, 214
South Carolina.....	117	7, 832	22, 263	2, 843	District No. 10				
Georgia.....	171	12, 825	30, 015	2, 340	Texas.....	350	62, 111	181, 990	2, 930
Florida.....	71	4, 780	9, 257	1, 937	District No. 11:				
District No. 4:					California.....	107	10, 228	41, 520	4, 059
Tennessee.....	124	12, 690	31, 030	2, 445	Utah.....	71	5, 900	18, 604	3, 153
Kentucky.....	109	10, 800	33, 444	3, 097	Nevada.....	7	430	2, 987	6, 946
Indiana.....	116	15, 534	55, 966	3, 603	Arizona.....	16	1, 767	7, 336	4, 152
Ohio.....	85	7, 844	30, 742	3, 919	District No. 12:				
District No. 5.					Idaho.....	90	8, 312	30, 121	3, 624
Alabama.....	126	26, 539	49, 392	1, 861	Montana.....	167	9, 259	28, 893	3, 121
Louisiana.....	80	15, 127	37, 541	2, 482	Oregon.....	94	7, 688	26, 306	3, 422
Mississippi.....	159	28, 823	57, 536	1, 996	Washington.....	168	14, 815	41, 770	2, 819

<sup>1</sup> Including loans made through national farm loan associations and agents

Source of Tables 293 and 294. Federal Farm Loan Board



# No. 295.—JOINT-STOCK LAND BANKS: PRINCIPAL ASSETS AND LIABILITIES OF EACH BANK, DECEMBER 31, 1928

NOTE — All figures in thousands of dollars. Banks in receivership are not included

District, bank, and location	Assets				Liabilities			
	Total	Net mortgage loans <sup>1</sup>	United States securities	Accrued interest	Capital paid in	Surplus, reserves, undivided profits	Farm loan bonds outstanding <sup>2</sup>	Accrued interest
All banks.....	656,702	605,199	7,918	10,140	41,733	10,750	588,969	7,326
District No. 1 New York, Rochester, N. Y.....	14,850	14,156	-----	90	800	199	13,500	197
District No. 2:								
Potomac, Alexandria, Va.....	7,135	6,790	-----	117	400	124	6,453	77
Virginia-Carolina, Norfolk, Va.....	7,910	6,996	180	125	400	169	7,000	94
Maryland-Virginia, Baltimore, Md.....	2,733	2,619	-----	44	250	104	2,200	21
Pennsylvania, Philadelphia, Pa.....	7,404	7,025	-----	111	419	70	6,639	61
Virginian, Charleston, W. Va.....	17,300	16,101	-----	219	1,150	288	15,607	15
Greenbrier, Lewisburg, W. Va.....	2,920	2,755	-----	42	250	50	2,501	43
District No. 3:								
Atlantic, Raleigh, N. C.....	16,692	16,136	-----	268	908	379	14,435	215
Greensboro, Greensboro, N. C.....	5,505	5,088	228	92	250	177	4,851	49
North Carolina, Durham, N. C.....	15,271	14,315	-----	256	709	501	13,700	218
First Carolinas, Columbia, S. C.....	13,709	12,713	187	166	755	58	12,553	183
Atlanta, Atlanta, Ga.....	6,573	6,029	200	82	350	88	6,000	73
District No. 4:								
Mississippi, Memphis, Tenn.....	4,445	4,206	-----	70	350	148	3,874	56
Tennessee, Memphis, Tenn.....	3,898	3,621	-----	59	250	109	3,475	51
Kentucky, Lexington, Ky.....	12,610	11,652	40	232	650	269	11,400	153
Louisville, Louisville, Ky.....	7,660	6,369	793	137	500	56	7,000	58
Union, Louisville, Ky.....	3,376	2,887	226	59	250	30	3,000	25
First, Fort Wayne, Ind.....	8,661	8,339	1	120	400	449	7,732	61
Fletcher, Indianapolis, Ind.....	16,457	15,647	163	403	750	732	14,718	118
Indianapolis, Indianapolis, Ind.....	465	358	1	7	250	6	200	1
Lafayette, Lafayette, Ind.....	9,848	9,520	87	161	300	448	8,999	70
Union Trust, Indianapolis, Ind.....	346	337	-----	7	250	66	-----	( <sup>4</sup> )
Ohio-Pennsylvania, Cleveland, Ohio.....	14,487	13,914	-----	172	770	295	13,000	155
District No. 5:								
First, Montgomery, Ala.....	9,631	9,247	-----	161	550	176	8,750	105
First, New Orleans, La.....	4,631	4,310	-----	85	250	102	4,047	46
District No. 6:								
Chicago, Chicago, Ill.....	56,156	48,898	619	567	4,000	-----	51,606	443
First Trust, Chicago, Ill. <sup>4</sup> .....	75,126	73,609	-----	1,081	4,000	689	68,716	909
Illinois, Monticello, Ill.....	7,358	7,152	-----	123	450	80	6,705	51
Illinois Midwest, Edwardsville, Ill.....	6,218	5,956	-----	100	350	80	5,575	56
St. Louis, St. Louis, Mo.....	22,782	21,687	52	382	1,430	367	20,593	209
Southwest, Little Rock, Ark.....	4,915	4,693	-----	97	285	68	4,413	62
District No. 7:								
Minneapolis Trust, Minneapolis, Minn.....	5,287	5,101	-----	77	450	310	4,460	37
Southern Minnesota, Minneapolis, Minn.....	27,926	20,657	804	328	3,000	-----	24,242	204
Union, Detroit, Mich.....	10,224	9,622	-----	183	600	208	8,944	150
District No. 8:								
Burlington, Burlington, Iowa.....	4,157	3,779	119	59	250	65	3,780	48
Des Moines, Des Moines, Iowa.....	15,219	12,483	304	199	1,150	-----	13,791	120
Iowa, Sioux City, Iowa.....	8,217	7,498	-----	120	500	259	7,333	95
Fremont, Lincoln, Nebr.....	10,196	9,102	-----	139	850	246	8,872	88
Lincoln, Lincoln, Nebr.....	39,781	36,613	154	573	2,711	729	35,636	475
District No. 9 Denver, Denver, Colo.....	15,844	15,183	-----	248	1,185	281	14,058	215
District No. 10:								
Dallas, Dallas, Tex.....	45,718	42,716	-----	1,232	2,560	737	40,375	644
First Texas, Houston, Tex.....	8,303	7,658	100	81	550	134	7,511	83
San Antonio, San Antonio, Tex.....	20,513	19,477	-----	503	1,227	234	18,379	272
District No. 11:								
California, San Francisco, Calif.....	17,375	14,070	3,060	153	916	483	15,061	82
Pacific Coast, San Francisco, Calif.....	24,255	22,809	460	350	1,400	393	21,824	395
Pacific Coast, Salt Lake City, Utah.....	5,055	4,508	100	74	300	71	4,550	92
District No. 12:								
Northwest, Portland, Oreg.....	107	42	-----	-----	91	16	-----	-----
Oregon-Washington, Portland, Oreg.....	3,707	3,515	-----	43	250	26	3,358	56
Pacific Coast, Portland, Oreg.....	7,779	7,477	50	81	450	201	6,925	148

<sup>1</sup> Less principal of delinquent installments and payments made in advance of maturity.

<sup>2</sup> Unmatured

<sup>3</sup> Less than \$500.

<sup>4</sup> First Trust of Dallas, Tex., merged with First Trust of Chicago, Ill., in November.

Source Federal Farm Loan Board.

No. 296.—JOINT-STOCK LAND BANKS: LOANS SUBMITTED FOR BOND ISSUE  
FROM ORGANIZATION TO DECEMBER 31, 1928

State	Number of loans	Land mortgaged (1,000 acres)	Appraised valuation (1,000 dollars)		State	Number of loans	Land mortgaged (1,000 acres)	Appraised valuation (1,000 dollars)	
			Land	Buildings				Land	Buildings
Total.....	121, 194	33 821	1, 784, 180	351, 015	Nebraska.....	4, 101	1, 586	82, 242	11, 306
Alabama.....	1, 031	385	16, 298	3, 047	Nevada.....	35	38	1, 612	326
Arizona.....	508	51	9, 527	939	New Jersey.....	616	53	4, 244	3, 662
Arkansas.....	1, 764	559	35, 025	4, 759	New York.....	2, 682	338	23, 716	16, 799
California.....	2, 815	807	79, 051	11, 743	North Carolina.....	13, 623	1, 973	96, 515	32, 294
Colorado.....	1, 489	569	22, 903	4, 797	North Dakota.....	797	210	12, 695	2, 616
Georgia.....	1, 805	655	21, 627	6, 236	Ohio.....	7, 625	827	69, 096	27, 055
Idaho.....	999	107	10, 572	1, 696	Oklahoma.....	1, 522	489	17, 098	2, 260
Illinois.....	10, 073	1, 391	195, 979	26, 598	Oregon.....	1, 235	872	32, 399	4, 238
Indiana.....	8, 526	932	101, 460	16, 339	Pennsylvania.....	2, 853	324	18, 114	15, 691
Iowa.....	10, 048	1, 671	259, 744	34, 195	South Carolina.....	3, 059	764	31, 892	8, 713
Kansas.....	4, 787	1, 757	67, 452	8, 937	South Dakota.....	2, 025	3, 907	37, 719	6, 881
Kentucky.....	2, 561	375	30, 401	7, 804	Tennessee.....	962	159	8, 953	2, 013
Louisiana.....	70	70	3, 395	683	Texas.....	13, 236	8, 236	212, 571	26, 720
Maryland.....	761	121	8, 391	4, 985	Utah.....	181	38	1, 747	325
Michigan.....	2, 344	270	20, 049	10, 675	Virginia.....	2, 660	510	25, 179	2, 846
Minnesota.....	4, 854	922	88, 528	17, 248	Washington.....	237	139	5, 932	969
Mississippi.....	581	310	22, 356	3, 314	West Virginia.....	2, 441	362	16, 388	6, 026
Missouri.....	4, 141	757	64, 991	8, 882	Wisconsin.....	1, 176	154	11, 576	4, 494
Montana.....	344	229	4, 846	1, 061	Wyoming.....	737	904	11, 898	1, 842

## LOANS BY PURPOSES (amounts in thousands of dollars)

State	Total amount loaned	Purchase of land		Buildings and improvements		Equipment, fertilizer, livestock, and irrigation		To pay mortgages		To pay other debts	
		Amount	Per cent	Amount	Per cent	Amount	Per cent	Amount	Per cent	Amount	Per cent
Total.....	823, 373	87, 908	10 7	26, 134	3 2	17, 006	2 1	637, 394	77 4	54, 782	6 6
Alabama.....	6, 609	381	5 8	258	3 9	106	1 6	5, 575	84 4	288	4 3
Arizona.....	3, 689	314	8 5	84	2 3	87	1 0	2, 992	81 1	262	7 1
Arkansas.....	15, 309	1, 107	7 2	799	5 2	679	4 4	12, 031	78 6	698	4 6
California.....	35, 377	2, 051	5 8	1, 490	4 2	793	2 2	27, 710	78 3	3, 332	9 5
Colorado.....	9, 856	923	9 3	143	1 4	268	2 7	7, 742	78 3	810	8 3
Georgia.....	9, 646	754	7 8	356	3 7	348	3 6	7, 573	78 5	615	6 4
Idaho.....	4, 656	322	6 9	49	1 1	43	1 0	3, 982	85 5	259	5 5
Illinois.....	87, 604	12, 782	14 6	1, 602	1 8	1, 104	1 3	64, 555	73 7	7, 561	8 6
Indiana.....	45, 893	9, 169	20 1	1, 253	2 7	720	1 6	31, 846	69 7	2, 729	3 9
Iowa.....	121, 019	12, 188	10 1	2, 937	2 4	1, 289	1 1	97, 425	80 5	7, 181	5 9
Kansas.....	30, 724	3, 093	10 1	561	1 8	920	3 0	24, 188	78 7	1, 962	6 4
Kentucky.....	14, 906	1, 215	8 2	394	2 6	236	1 6	12, 287	82 4	773	5 2
Louisiana.....	1, 429	47	3 3	10	7	23	1 6	1, 273	89 4	71	5 0
Maryland.....	4, 641	631	13 6	165	3 6	95	2 0	3, 456	74 5	293	6 3
Michigan.....	10, 797	1, 347	12 5	410	3 8	234	2 2	8, 195	75 9	611	5 6
Minnesota.....	42, 138	2, 885	6 8	1, 027	2 4	491	1 2	35, 765	84 9	1, 970	4 7
Mississippi.....	9, 050	1, 098	12 1	597	6 6	195	2 2	6, 441	71 2	718	7 9
Missouri.....	30, 824	2, 851	9 3	993	3 2	475	1 6	24, 907	80 7	1, 618	5 2
Montana.....	2, 045	133	6 5	67	3 3	117	5 7	1, 370	67 0	357	17 5
Nebraska.....	35, 832	5, 500	15 4	699	1 9	673	1 9	26, 261	73 3	2, 699	7 5
Nevada.....	755	35	4 6	5	7	61	8 1	626	82 9	28	3 7
New Jersey.....	2, 630	305	11 6	143	5 4	89	3 4	1, 971	74 9	121	4 7
New York.....	13, 609	1, 498	11 0	490	3 6	353	2 6	10, 581	77 7	688	5 1
North Carolina.....	44, 538	3, 291	7 4	3, 401	7 6	1, 301	3 1	33, 032	74 2	3, 451	7 7
North Dakota.....	4, 728	198	4 2	65	1 4	72	1 5	4, 261	90 1	182	4 1
Ohio.....	35, 760	5, 341	14 9	1, 290	3 6	734	2 1	26, 505	74 1	1, 890	5 3
Oklahoma.....	7, 710	675	8 8	184	2 4	355	4 6	6, 092	79 0	404	5 2
Oregon.....	14, 204	1, 333	9 4	268	1 9	375	2 6	11, 020	77 6	1, 207	8 5
Pennsylvania.....	10, 928	2, 007	18 4	426	3 9	231	2 1	7, 600	69 5	663	6 1
South Carolina.....	16, 084	968	6 0	721	4 5	538	3 3	12, 111	75 3	1, 745	10 9
South Dakota.....	17, 112	1, 101	6 4	353	2 1	147	9	14, 716	86 0	798	4 6
Tennessee.....	4, 129	398	9 6	160	3 9	94	2 3	3, 304	80 0	175	4 2
Texas.....	94, 557	8, 983	9 5	2, 814	3 0	2, 590	2 7	74, 716	79 0	5, 454	5 8
Utah.....	829	34	4 2	21	2 5	16	1 9	718	86 5	41	4 6
Virginia.....	12, 412	1, 251	10 1	614	4 9	322	2 6	8, 879	71 5	1, 346	10 9
Washington.....	2, 539	226	8 9	37	1 5	24	9	2, 097	82 6	166	6 1
West Virginia.....	7, 635	940	12 3	958	12 5	494	6 5	4, 330	56 7	914	12 0
Wisconsin.....	5, 880	446	7 6	251	4 3	193	3 3	4, 732	80 4	258	4 4
Wyoming.....	5, 261	145	2 7	42	8	108	2 0	4, 520	85 9	447	8 6

Source: Federal Farm Loan Board.

# No. 297.—FEDERAL INTERMEDIATE CREDIT BANKS: PRINCIPAL ASSETS AND LIABILITIES, DECEMBER 31

[All figures in thousands of dollars]

	Assets				Liabilities		
	Total	Loans	Discounts	Cash on hand and in banks	Capital paid in 1	Surplus and undivided profits	Debentures outstanding (unmatured)
All banks							
1923	99,288	33,627	9,105	2,789	20,000	246	30,500
1924	120,049	43,507	18,760	8,384	24,000	908	49,710
1925	126,135	53,780	26,272	3,393	24,000	1,665	58,699
1926	135,008	52,704	39,730	4,074	25,000	1,861	68,540
1927	120,209	31,991	48,924	3,865	25,000	2,243	51,150
1928	121,875	36,174	45,103	3,339	27,000	2,074	44,875
Springfield	5,275		659	158	2,000	205	
Baltimore	6,115	1,420	1,443	163	2,000	203	800
Columbia	9,020	3,121	2,274	420	3,000		3,625
Louisville	5,368	696	206	502	2,000	281	50
New Orleans	11,928	6,000	2,142	699	2,000	128	5,725
St. Louis	5,288	696	923	661	2,000	43	70
St. Paul	10,670	591	7,030	78	2,000	209	4,700
Omaha	9,395	520	5,804	46	2,000	166	2,350
Wichita	17,762	13,757	587	174	2,000	217	4,900
Houston	13,410	1,050	9,092	264	2,000	187	7,750
Berkeley	18,027	7,331	9,380	135	4,000	274	11,720
Spokane	9,617	994	5,564	39	2,000	161	3,185

<sup>1</sup> Each bank is capitalized at \$5,000,000, subscribed by the Treasury of the United States, subject to call. Only amounts shown have been called and paid in.

Source: Federal Farm Loan Board

# No. 298.—WAR FINANCE CORPORATION: STATUS OF ADVANCES MADE UNDER ALL SECTIONS OF THE ACT, APRIL 5, 1918, TO NOVEMBER 30, 1928

NOTE.—When the corporation resumed operations January, 1921, there was outstanding \$111,117,610. The making of new loans was discontinued on Dec 31, 1924, and all loans since that date are "expense advances" only. Figures for agricultural and livestock loans have been revised and adjusted so as to exclude all amounts representing renewals of loans and to include only net additional amounts advanced. For details of advances to Nov. 30, 1924, see Statistical Abstract 1924, Tables 245 and 246

	Amounts advanced	Repayments to Nov 30, 1922	Repayments Dec 1, 1922, to Nov 30, 1924	Repayments Dec 1, 1924, to Nov 30, 1927	Repayments Dec 1, 1927, to Nov 30, 1928	Balance outstanding Nov. 30, 1928
Total	\$690,431,100	\$470,036,773	\$154,882,605	\$61,743,377	\$1,427,924	\$687,468
Advances under the war power of the corporation	<sup>1</sup> 306,771,211	279,091,966	10,688,867	<sup>2</sup> 16,790,378	9,840	190,160
Advances for export purposes prior to resumption of operations in January, 1921	46,347,654	46,347,654				
Advances for export purposes since resumption of operations in January, 1921	38,653,540	36,593,543	2,059,996			
Advances for agricultural and livestock purposes under agricultural credits act of Aug. 24, 1921	<sup>3</sup> 298,658,694	108,003,609	142,133,744	44,952,998	1,418,084	<sup>4</sup> 497,308

<sup>1</sup> Includes expense advances amounting to \$15,191

<sup>2</sup> Includes \$4,100 charged to profit and loss

<sup>3</sup> Includes expense advances amounting to \$1,670,732

<sup>4</sup> After deducting an additional amount of \$1,652,991 charged to profit and loss

Source: War Finance Corporation.

## No. 299.—CLEARING HOUSE EXCHANGES: SUMMARY FOR UNITED STATES

NOTE.—Prior to 1920 data are for all cities reporting to the New York Clearing House Association, commencing 1920 they are for 179 identical cities. The comparability of these figures is affected (1) by changes in the number of cities reporting, and (2) by the tendency toward consolidation of banks, eliminating former clearings between two or more banks. Debits to individual account (Tables 301 and 302) are a more significant measure of volume of payment. For States included in each division see Table 300.

[All figures in millions of dollars]

Year ended Sept 30—	United States	Outside New York City	New York City	Year ended Sept 30—	United States	Outside New York City	New York City
1882.....	61,054	14,501	46,553	1891.....	57,181	23,127	34,054
1883.....	53,536	13,243	40,293	1892.....	60,884	24,604	36,280
1884.....	47,387	13,295	34,092	1893.....	58,881	24,460	34,421
1885.....	37,770	12,519	25,251	1894.....	48,028	20,798	24,230
1886.....	48,212	14,837	33,375	1895.....	50,975	22,711	28,264
1887.....	52,127	17,254	34,873	1896.....	51,936	22,585	29,351
1888.....	48,751	17,887	30,864	1897.....	54,180	22,842	31,338
1889.....	53,501	18,705	34,796	1898.....	65,925	26,072	39,853
1890.....	59,882	22,221	37,661	1899.....	88,829	31,461	57,368

  

Year ended Sept. 30—	United States		New England division	Eastern division		Southern division	Middle Western division	Western division	Pacific division
	Total	Outside New York City		Total	New York City				
1900.....	84,582	32,618	7,120	59,705	51,965	2,328	13,184	651	1,594
1901.....	114,820	37,799	8,036	86,396	77,021	2,650	15,193	735	1,809
1902.....	115,892	41,139	7,861	84,892	74,753	2,899	17,262	793	2,185
1903.....	113,963	43,130	7,796	81,533	70,834	3,266	17,979	838	2,551
1904.....	102,365	42,684	7,331	69,507	59,673	3,695	15,876	830	2,618
1905.....	140,502	48,623	8,467	103,765	91,879	4,016	20,097	964	3,194
1906.....	157,681	53,927	9,245	117,034	103,754	4,606	21,877	1,110	3,810
1907.....	154,477	59,161	9,712	108,662	95,315	5,113	24,746	1,384	4,860
1908.....	126,239	52,608	8,115	85,343	73,631	4,485	23,145	1,382	3,768
1909.....	158,877	59,620	9,372	111,501	96,258	5,108	26,682	1,700	4,514
1910.....	168,987	66,433	9,707	116,778	102,554	5,961	29,148	1,980	5,422
1911.....	159,540	67,119	9,616	106,742	92,420	6,528	29,062	1,938	5,654
1912.....	168,686	72,014	10,278	111,672	96,672	7,446	30,910	2,043	6,338
1913.....	173,193	75,071	9,807	114,430	98,122	6,750	33,338	2,221	6,647
1914.....	163,850	74,089	9,400	105,474	89,760	6,774	33,667	2,278	6,357
1915.....	163,189	72,347	9,022	105,793	90,843	6,411	33,442	2,410	6,112
1916.....	242,236	95,055	12,211	167,897	147,181	8,830	42,671	3,248	7,379
1917.....	305,062	123,528	14,433	208,061	181,534	11,771	56,149	4,485	10,163
1918.....	320,989	146,464	16,975	205,810	174,524	15,577	63,621	6,599	12,406
1919.....	387,854	173,151	19,237	252,255	214,703	20,707	72,366	7,695	15,594
1920.....	460,422	208,084	22,378	297,275	252,338	26,247	85,080	9,279	20,164
1921.....	374,227	170,145	17,340	243,087	204,082	18,689	69,870	7,595	17,946
1922.....	379,211	165,885	18,039	251,262	213,326	18,141	66,039	6,992	18,738
1923.....	408,334	193,713	21,801	259,423	214,621	21,547	75,636	7,384	22,543
1924.....	434,501	199,002	23,357	280,971	235,499	23,149	75,873	6,944	24,207
1925.....	495,785	218,911	25,050	327,767	276,874	20,036	83,604	7,610	25,719
1926.....	525,140	231,698	27,881	347,045	293,443	27,442	86,286	7,840	23,647
1927.....	535,792	228,632	29,319	358,909	307,159	25,229	86,021	7,784	28,529
1928.....	603,637	234,769	29,720	420,514	368,918	24,918	88,683	8,288	31,564

Source: Comptroller of the Currency, Treasury Department.

## No. 299.—CLEARING HOUSE EXCHANGES: SUMMARY FOR UNITED STATES

NOTE.—Prior to 1920 data are for all cities reporting to the New York Clearing House Association, commencing 1920 they are for 179 identical cities. The comparability of these figures is affected (1) by changes in the number of cities reporting, and (2) by the tendency toward consolidation of banks, eliminating former clearings between two or more banks. Debits to individual account (Tables 301 and 302) are a more significant measure of volume of payment. For States included in each division see Table 300.

[All figures in millions of dollars]

Year ended Sept 30—	United States	Outside New York City	New York City	Year ended Sept 30—	United States	Outside New York City	New York City
1882.....	61,054	14,501	46,553	1891.....	57,181	23,127	34,054
1883.....	53,536	13,243	40,293	1892.....	60,884	24,604	36,280
1884.....	47,387	13,295	34,092	1893.....	58,881	24,460	34,421
1885.....	37,770	12,519	25,251	1894.....	48,028	20,798	24,230
1886.....	48,212	14,837	33,375	1895.....	50,975	22,711	28,264
1887.....	52,127	17,254	34,873	1896.....	51,936	22,585	29,351
1888.....	48,751	17,887	30,864	1897.....	54,180	22,842	31,338
1889.....	53,501	18,705	34,796	1898.....	65,925	26,072	39,853
1890.....	59,882	22,221	37,661	1899.....	88,829	31,461	57,368

  

Year ended Sept. 30—	United States		New England division	Eastern division		Southern division	Middle Western division	Western division	Pacific division
	Total	Outside New York City		Total	New York City				
1900.....	84,582	32,618	7,120	59,705	51,965	2,328	13,184	651	1,594
1901.....	114,820	37,799	8,036	86,398	77,021	2,650	15,193	735	1,809
1902.....	115,892	41,139	7,861	84,892	74,753	2,899	17,262	793	2,185
1903.....	113,963	43,130	7,796	81,533	70,834	3,266	17,979	838	2,551
1904.....	102,365	42,684	7,331	69,507	59,673	3,695	15,876	830	2,618
1905.....	140,502	48,623	8,467	103,765	91,879	4,016	20,097	964	3,194
1906.....	157,681	53,927	9,245	117,034	103,754	4,606	21,877	1,110	3,810
1907.....	154,477	59,161	9,712	108,662	95,315	5,113	24,746	1,384	4,860
1908.....	126,239	52,608	8,115	85,343	73,631	4,485	23,145	1,382	3,768
1909.....	158,877	59,620	9,372	111,501	99,258	5,108	26,682	1,700	4,514
1910.....	168,987	66,433	9,707	116,778	102,554	5,961	29,148	1,980	5,422
1911.....	159,540	67,119	9,616	106,742	92,420	6,528	29,062	1,938	5,654
1912.....	168,686	72,014	10,278	111,672	96,672	7,446	30,910	2,043	6,338
1913.....	173,193	75,071	9,807	114,430	98,122	6,750	33,338	2,221	6,647
1914.....	163,850	74,089	9,400	105,474	89,760	6,774	33,667	2,278	6,357
1915.....	163,189	72,347	9,022	105,793	90,843	6,411	33,442	2,410	6,112
1916.....	242,236	95,055	12,211	167,897	147,181	8,830	42,671	3,248	7,379
1917.....	305,062	123,528	14,433	208,061	181,534	11,771	56,149	4,485	10,163
1918.....	320,989	146,464	16,975	205,810	174,524	15,577	63,621	6,599	12,406
1919.....	387,854	173,151	19,237	252,255	214,703	20,707	72,366	7,695	15,594
1920.....	460,422	208,084	22,378	297,275	252,338	26,247	85,080	9,279	20,164
1921.....	374,227	170,145	17,340	243,087	204,082	18,689	69,870	7,595	17,946
1922.....	379,211	165,885	18,039	251,262	213,326	18,141	66,039	6,992	18,738
1923.....	408,334	193,713	21,801	259,423	214,621	21,547	75,636	7,384	22,543
1924.....	434,501	199,002	23,357	280,971	235,499	23,149	75,873	6,944	24,207
1925.....	495,785	218,911	25,050	327,767	276,874	20,036	83,604	7,610	25,719
1926.....	525,140	231,698	27,881	347,045	293,443	27,442	86,286	7,840	23,647
1927.....	535,792	228,632	29,319	358,909	307,159	25,229	86,021	7,784	28,529
1928.....	603,637	234,769	29,720	420,514	368,918	24,918	88,683	8,288	31,564

Source: Comptroller of the Currency, Treasury Department.

## No. 300.—CLEARING HOUSE EXCHANGES: AMOUNT OF CLEARINGS IN EACH CITY—Continued

[All figures in millions and tenths of millions of dollars]

Division and city	1922	1927	1928	Division and city	1922	1927	1928
Ohio—(Continued)				South Dakota			
Hamilton.....	33 5	<sup>1</sup> 48 6	<sup>2</sup> 55 6	Aberdeen.....	62 1	68 2	72 0
Lorain.....	15 9	23 6	22 0	Sioux Falls.....	130 0	85 2	82 5
Mansfield.....	68 1	106 0	99 5	Watertown.....	-----	10 8	12 7
Marion.....	-----	34 4	31 6	Nebraska			
Springfield.....	179 9	291 1	278 9	Fremont.....	19 7	20 4	21 4
Youngstown.....	175 9	285 0	322 6	Hastings.....	27 8	<sup>2</sup> 24 8	<sup>2</sup> 27 5
Zanesville.....	-----	166 4	156 9	Lincoln.....	190 4	<sup>2</sup> 251 7	<sup>2</sup> 253 1
Indiana				Omaha.....	2, 058 0	2, 081 4	2, 282 7
Evansville.....	255 2	304 3	277 9	Kansas			
Fort Wayne.....	97 3	154 7	171 6	Atchison.....	23 9	18 3	20 9
Gary.....	104 5	309 9	222 5	Kansas City.....	218 5	130 0	110 5
Hammond.....	-----	245 3	249 6	Lawrence.....	16 5	23 0	22 3
Indianapolis.....	876 8	1, 206 8	1, 197 7	Manhattan.....	13 4	16 2	16 3
N. w. Albany.....	6 3	<sup>2</sup> 10 0	<sup>2</sup> 8 9	Parsons.....	14 9	9 7	11 1
South Bend.....	160 9	161 4	161 9	Pittsburg.....	27 0	77 7	81 9
Terre Haute.....	135 3	298 9	280 3	Topeka.....	142 2	171 1	192 3
Illinois				Wichita.....	542 0	<sup>2</sup> 425 0	<sup>2</sup> 468 1
Aurora.....	47 5	86 3	70 6	Montana			
Bloomington.....	65 0	82 9	94 3	Billings.....	40 6	33 4	37 1
Champaign.....	-----	74 2	70 6	Great Falls.....	43 1	<sup>2</sup> 51 9	<sup>2</sup> 65 3
Chicago.....	27, 102 2	35, 462 0	36, 943 8	Helena.....	107 0	159 6	178 3
Danville.....	143 5	50 6	50 2	Lewistown.....	17 3	9 3	9 9
Decatur.....	57 2	70 6	67 0	Wyoming			
Jacksonville.....	16 2	20 4	19 5	Cheyenne.....	66 4	32 0	-----
Peoria.....	176 9	253 3	273 5	Colorado			
Quincy.....	44 8	81 0	78 1	Colorado Springs.....	52 8	62 2	70 0
Rockford.....	95 1	180 0	185 8	Denver.....	1, 522 9	1, 697 4	1, 821 1
Springfield.....	115 3	139 9	148 2	Grand Junction.....	-----	42 5	43 0
Michigan				Pueblo.....	39 0	67 6	73 2
Adrian.....	10 8	14 2	14 0	Oklahoma			
Ann Arbor.....	33 9	59 1	49 9	Bartlesville.....	34 1	42 3	35 9
Detroit.....	5, 074 3	8, 741 4	9, 760 0	Oklahoma City.....	1, 083 7	1, 530 4	1, 561 8
Flint.....	79 7	173 2	196 5	Okmulgee.....	-----	37 0	29 9
Grand Rapids.....	313 5	415 0	432 4	Tulsa.....	365 4	592 2	608 4
Jackson.....	48 9	<sup>2</sup> 95 8	<sup>2</sup> 104 1	Pacific			
Kalamazoo.....	-----	304 7	322 0	18, 780 7	29, 278 3	32, 402 1	
Lansing.....	115 2	142 2	156 4	Washington			
Muskegon.....	-----	62 8	62 0	Bellingham.....	-----	47 7	43 2
Pontiac.....	7 5	63 6	81 3	Olympia.....	-----	18 2	19 3
Wisconsin				Seattle.....	1, 618 4	2, 338 0	2, 504 7
Green Bay.....	-----	69 1	67 2	Spokane.....	517 1	651 9	706 0
Madison.....	99 7	185 6	187 2	Yakima.....	74 6	73 9	82 5
Milwaukee.....	1, 512 2	2, 240 9	2, 181 4	Oregon			
Oshkosh.....	31 6	51 7	52 5	Eugene.....	14 8	26 8	24 0
Minnesota				Portland.....	1, 563 5	2, 005 6	1, 968 8
Duluth.....	301 4	427 3	454 5	California			
Minneapolis.....	3, 266 6	3, 941 1	4, 373 0	Bakersfield.....	52 3	66 4	67 7
Rochester.....	20 5	31 5	32 7	Berkeley.....	195 4	251 4	269 5
St. Paul.....	1, 586 4	1, 540 4	1, 615 2	Fresno.....	1, 139 0	<sup>2</sup> 229 2	<sup>2</sup> 216 0
South St. Paul.....	74 6	80 5	80 7	Huntington Park.....	-----	24 0	29 7
Winona.....	26 9	26 1	-----	Long Beach.....	219 6	367 2	407 6
Iowa				Los Angeles.....	4, 850 1	9, 254 6	10, 299 7
Cedar Rapids.....	104 6	146 0	151 1	Modesto.....	37 2	46 1	44 4
Charles City.....	-----	11 0	11 1	Oakland.....	644 3	974 8	1, 022 8
Davenport.....	507 3	534 9	597 9	Pasadena.....	187 7	349 1	355 0
Des Moines.....	484 1	525 3	521 9	Riverside.....	28 6	<sup>2</sup> 57 8	<sup>2</sup> 53 9
Iowa City.....	30 4	26 4	26 0	Sacramento.....	315 3	415 5	387 5
Muscatine.....	-----	84 1	79 2	San Bernardino.....	-----	118 8	125 4
Sioux City.....	275 4	327 5	351 8	San Diego.....	150 5	302 4	289 6
Waterloo.....	67 2	67 0	70 7	San Francisco.....	7, 056 6	9, 699 1	11, 352 2
Missouri				San Jose.....	109 8	148 3	167 6
Cape Girardeau.....	-----	40 5	47 6	San Pedro.....	-----	44 3	44 5
Joplin.....	61 6	61 2	52 2	Santa Barbara.....	-----	74 3	89 1
Kansas City.....	6, 728 3	7, 392 9	6, 551 0	Santa Monica.....	54 9	115 4	113 3
St. Joseph.....	412 2	342 6	361 6	Santa Rosa.....	23 9	25 4	27 4
St. Louis.....	6, 587 9	7, 359 0	7, 470 4	Stockton.....	1 1 8	143 8	137 6
Sedalia.....	-----	20 2	20 8	Idaho Boise.....	-----	<sup>2</sup> 60 9	<sup>2</sup> 67 3
Springfield.....	-----	89 8	90 5	Utah			
Western.....	7, 379 7	7, 995 3	8, 369 6	Ogden.....	75 1	84 2	93 8
North Dakota.				Salt Lake City.....	650 3	861 4	962 4
Fargo.....	97 5	<sup>2</sup> 73 0	<sup>2</sup> 102 4	Nevada. Reno.....	31 1	<sup>2</sup> 35 5	<sup>2</sup> 36 2
Grand Forks.....	57 6	<sup>2</sup> 71 1	<sup>2</sup> 72 2	Arizona Phoenix.....	-----	320 3	392 5
Minot.....	15 5	<sup>2</sup> 16 7	<sup>2</sup> 20 8				

<sup>1</sup> Nine months.<sup>2</sup> From Commercial and Financial Chronicle

Source: Comptroller of the Currency, Treasury Department.

# No. 301.—DEBITS TO INDIVIDUAL ACCOUNTS: VOLUME REPORTED BY BANKS IN 141 PRINCIPAL CITIES, BY DISTRICTS AND BY MONTHS

[All figures in millions of dollars]

Year	Total	Total, excl New York City	New York City	Boston district (11 cities)	New York district (7 cities)		Phila- delphia district (10 cities)	Cleve- land district (13 cities)	Rich- mond district (7 cities)
					Incl. New York	Excl. New York			
1919.....	455,294	211,175	244,119	25,898	250,880	6,761	19,496	23,579	8,611
1920.....	483,026	211,506	241,430	28,157	249,375	7,945	22,092	27,677	9,655
1921.....	399,036	191,941	207,067	21,735	213,911	6,816	18,690	21,105	8,235
1922.....	439,364	199,509	239,855	22,392	247,067	7,212	19,985	22,299	7,716
1923.....	463,726	225,330	238,396	24,851	246,493	8,097	22,301	26,149	8,501
1924.....	491,691	228,161	263,530	25,675	271,861	8,331	22,773	28,726	9,193
1925.....	570,064	256,690	313,374	29,014	322,843	9,469	27,253	30,022	9,336
1926.....	607,956	268,901	339,055	31,033	348,833	9,778	26,248	32,150	9,331
1927.....	673,861	282,303	391,558	33,566	401,819	11,269	27,291	33,317	9,685
1928.....	806,406	306,195	500,211	34,228	511,584	11,374	30,463		

  

Year	Atlanta district (15 cities)	Chicago district (21 cities)			St. Louis district (5 cities)	Minne- apolis district (9 cities)	Kansas City district (15 cities)	Dallas district (10 cities)	San Fran- cisco district (18 cities)
		Incl Chicago	City of Chicago	Excl Chicago					
1919.....	11,139	50,669	33,595	17,074	12,920	8,240	14,814	6,165	22,003
1920.....	12,812	59,096	37,954	21,112	13,542	8,902	16,322	7,240	28,226
1921.....	9,383	46,837	30,832	16,005	10,401	6,788	12,207	5,807	23,937
1922.....	9,579	49,304	32,331	16,973	10,939	6,971	12,550	6,010	24,562
1923.....	11,137	55,367	35,279	20,088	12,794	7,495	13,494	6,217	28,936
1924.....	11,721	55,995	35,723	20,272	12,812	8,240	12,778	6,227	29,535
1925.....	13,914	63,575	40,470	23,105	14,886	9,039	14,193	17,197	32,731
1926.....	14,264	67,217	42,839	24,378	14,741	8,301	14,824	17,474	35,663
1927.....	13,790	70,195	45,970	24,225	14,750	8,699	15,088	17,782	39,470
1928.....	13,707	79,062	51,162	27,900	15,495	9,297	16,083	8,415	45,670

  

Year	Jan	Feb	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct	Nov.	Dec.
All districts.												
1919.....	34,929	28,163	32,171	32,686	37,027	39,211	41,056	37,944	38,532	44,474	42,536	46,565
1920.....	45,367	35,788	43,431	41,644	39,257	40,347	39,868	36,275	37,378	41,028	39,696	42,948
1921.....	38,029	29,728	33,903	32,235	32,512	33,606	31,515	30,097	31,625	34,323	33,441	38,020
1922.....	31,944	30,585	36,932	36,388	37,976	39,236	36,056	34,136	35,768	40,745	36,160	40,437
1923.....	41,753	35,925	42,185	39,294	40,072	40,574	36,504	33,496	34,060	38,911	38,504	42,448
1924.....	41,498	37,398	40,739	39,519	40,044	40,230	40,131	38,692	38,972	43,418	41,893	49,157
1925.....	40,982	41,517	47,623	44,558	46,596	48,631	47,037	43,134	45,264	52,955	48,367	54,399
1926.....	54,145	44,915	50,464	51,837	48,020	50,062	50,959	47,011	46,954	52,535	47,384	57,070
1927.....	54,718	48,220	58,518	55,883	54,143	58,820	53,682	53,702	56,750	59,201	57,085	65,441
1928.....	62,885	54,494	70,634	67,003	71,616	72,485	58,981	58,504	63,176	72,894	71,349	82,386
All districts, excl New York City												
1919.....	16,810	13,671	15,472	15,363	16,697	17,641	18,629	17,668	18,086	20,248	19,185	21,705
1920.....	21,731	17,734	21,146	20,324	19,676	20,541	20,805	18,904	19,779	20,891	19,825	20,540
1921.....	17,996	14,599	16,550	15,886	15,342	15,852	15,175	14,911	15,523	16,713	15,949	17,446
1922.....	15,879	14,042	16,535	15,671	16,322	17,173	16,343	15,849	16,553	18,423	17,133	19,586
1923.....	19,666	16,906	19,644	18,816	19,368	19,532	18,184	17,307	17,261	19,759	18,502	20,367
1924.....	19,384	17,512	19,193	18,865	18,639	18,304	18,662	17,778	18,238	20,912	18,846	21,830
1925.....	22,300	18,593	21,241	20,813	20,417	21,701	21,679	19,869	20,895	24,039	22,358	24,086
1926.....	23,607	20,102	23,459	22,537	21,449	22,466	23,300	20,778	21,336	23,780	21,594	24,493
1927.....	23,457	20,781	24,026	23,576	22,873	23,812	22,932	22,048	23,381	25,111	23,805	26,003
1928.....	26,001	21,755	25,847	25,225	26,346	27,029	23,897	23,401	24,450	27,705	25,880	29,659
New York City												
1919.....	18,119	14,492	16,698	17,323	20,330	21,570	22,427	20,276	20,446	24,226	23,351	24,860
1920.....	23,636	18,054	22,285	21,329	19,581	19,809	19,063	17,971	17,609	20,137	20,171	22,408
1921.....	20,033	15,130	17,353	16,349	17,171	17,755	16,340	15,189	16,103	17,610	17,492	20,575
1922.....	19,065	16,543	20,397	20,717	21,654	22,063	19,713	18,287	19,215	22,322	19,027	20,851
1923.....	22,087	19,019	22,541	20,479	20,704	21,041	18,321	16,189	16,799	19,152	19,083	22,081
1924.....	22,114	19,886	21,546	20,654	21,406	21,469	20,916	20,734	22,506	23,047	23,047	27,327
1925.....	27,682	22,924	26,382	23,945	26,179	26,330	25,458	23,265	24,368	28,916	27,009	30,313
1926.....	30,538	24,813	33,005	29,300	26,571	28,195	27,659	26,233	25,618	33,755	25,790	32,577
1927.....	31,268	27,439	34,192	32,007	31,270	33,008	30,750	31,653	33,969	34,991	33,282	38,938
1928.....	37,884	32,740	44,786	41,778	45,270	45,455	35,085	35,102	38,725	45,189	45,469	52,727

1 Revised to include 8 banks in Houston, Tex., figures for which did not become available until 1927.

Source: Federal Reserve Board

# No. 301.—DEBITS TO INDIVIDUAL ACCOUNTS: VOLUME REPORTED BY BANKS IN 141 PRINCIPAL CITIES, BY DISTRICTS AND BY MONTHS

[All figures in millions of dollars]

Year	Total	Total, excl New York City	New York City	Boston district (11 cities)	New York district (7 cities)		Phila- delphia district (10 cities)	Cleve- land district (13 cities)	Rich- mond district (7 cities)
					Incl. New York	Excl. New York			
1919.....	455,294	211,175	244,119	25,898	250,880	6,761	19,496	23,579	8,611
1920.....	483,026	211,506	241,430	28,157	249,375	7,945	22,092	27,677	9,655
1921.....	399,036	191,941	207,067	21,735	213,911	6,816	18,690	21,105	8,235
1922.....	439,364	199,509	239,855	22,392	247,067	7,212	19,985	22,299	7,716
1923.....	463,726	225,330	238,396	24,851	246,493	8,097	22,301	26,149	8,501
1924.....	491,691	228,161	263,530	25,675	271,861	8,331	22,773	28,726	9,193
1925.....	570,064	256,690	313,374	29,014	322,843	9,469	27,253	30,022	9,336
1926.....	607,956	268,901	339,055	31,033	348,833	9,778	26,248	32,150	9,331
1927.....	673,861	282,303	391,558	33,566	401,819	11,269	27,291	33,317	9,685
1928.....	806,406	306,195	500,211	34,228	511,584	11,374	30,463		

  

Year	Atlanta district (15 cities)	Chicago district (21 cities)			St. Louis district (5 cities)	Minne- apolis district (9 cities)	Kansas City district (15 cities)	Dallas district (10 cities)	San Fran- cisco district (18 cities)
		Incl. Chicago	City of Chicago	Excl. Chicago					
1919.....	11,139	50,669	33,595	17,074	12,920	8,240	14,814	6,165	22,003
1920.....	12,812	59,096	37,954	21,112	13,542	8,902	16,322	7,240	28,226
1921.....	9,383	46,837	30,832	16,005	10,401	6,788	12,207	5,807	23,937
1922.....	9,579	49,304	32,331	16,973	10,939	6,971	12,550	6,010	24,562
1923.....	11,137	55,367	35,279	20,088	12,794	7,495	13,494	6,217	28,936
1924.....	11,721	55,995	35,723	20,272	12,812	8,240	12,778	6,227	29,535
1925.....	13,914	63,575	40,470	23,105	14,886	9,039	14,193	17,197	32,731
1926.....	14,264	67,217	42,839	24,378	14,741	8,301	14,824	17,474	35,663
1927.....	13,790	70,195	45,970	24,225	14,750	8,699	15,088	17,782	39,470
1928.....	13,707	79,062	51,162	27,900	15,495	9,297	16,083	8,415	45,670

  

Year	Jan	Feb	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct	Nov.	Dec.
All districts.												
1919.....	34,929	28,163	32,171	32,686	37,027	39,211	41,056	37,944	38,532	44,474	42,536	46,565
1920.....	45,367	35,788	43,431	41,644	39,257	40,347	39,868	36,275	37,378	41,028	39,696	42,948
1921.....	38,029	29,728	33,903	32,235	32,512	33,606	31,515	30,097	31,625	34,323	33,441	38,020
1922.....	31,944	30,585	36,932	36,388	37,976	39,236	36,056	34,136	35,768	40,745	36,160	40,437
1923.....	41,753	35,925	42,185	39,294	40,072	40,574	36,504	33,496	34,060	38,911	38,504	42,448
1924.....	41,498	37,398	40,739	39,519	40,044	40,230	40,131	38,692	38,972	43,418	41,893	49,157
1925.....	40,982	41,517	47,623	44,558	46,596	48,631	47,037	43,134	45,264	52,955	48,367	54,399
1926.....	54,145	44,915	50,464	51,837	48,020	50,062	50,959	47,011	46,954	52,535	47,384	57,070
1927.....	54,718	48,220	58,518	55,883	54,143	58,820	53,682	53,702	56,750	59,201	57,085	65,441
1928.....	62,885	54,494	70,634	67,003	71,616	72,485	58,981	58,504	63,176	72,894	71,349	82,386
All districts, excl. New York City												
1919.....	16,810	13,671	15,472	15,363	16,697	17,641	18,629	17,668	18,086	20,248	19,185	21,705
1920.....	21,731	17,734	21,146	20,324	19,676	20,541	20,805	18,904	19,779	20,891	19,825	20,540
1921.....	17,996	14,599	16,550	15,886	15,342	15,852	15,175	14,911	15,523	16,713	15,949	17,446
1922.....	15,879	14,042	16,535	15,671	16,322	17,173	16,343	15,849	16,553	18,423	17,133	19,586
1923.....	19,666	16,906	19,644	18,816	19,368	19,532	18,184	17,307	17,261	19,759	18,502	20,367
1924.....	19,384	17,512	19,193	18,865	18,639	18,304	18,662	17,778	18,238	20,912	18,846	21,830
1925.....	22,300	18,593	21,241	20,813	20,417	21,701	21,679	19,869	20,895	24,039	22,358	24,086
1926.....	23,607	20,102	23,459	22,537	21,449	22,466	23,300	20,778	21,336	23,780	21,594	24,493
1927.....	23,457	20,781	24,026	23,576	22,873	23,812	22,932	22,048	23,381	25,111	23,805	26,003
1928.....	26,001	21,755	25,847	25,225	26,346	27,029	23,897	23,401	24,450	27,705	25,880	29,659
New York City												
1919.....	18,119	14,492	16,698	17,323	20,330	21,570	22,427	20,276	20,446	24,226	23,351	24,860
1920.....	23,636	18,054	22,285	21,329	19,581	19,809	19,063	17,971	17,609	20,137	20,171	22,408
1921.....	20,033	15,130	17,353	16,349	17,171	17,755	16,340	15,189	16,103	17,610	17,492	20,575
1922.....	19,065	16,543	20,397	20,717	21,654	22,063	19,713	18,287	19,215	22,322	19,027	20,851
1923.....	22,087	19,019	22,541	20,479	20,704	21,041	18,321	16,189	16,799	19,152	19,083	22,081
1924.....	22,114	19,886	21,546	20,654	21,406	21,469	20,916	20,734	22,506	23,047	23,047	27,327
1925.....	27,682	22,924	26,382	23,945	26,179	26,330	25,458	23,265	24,369	28,916	27,009	30,313
1926.....	30,538	24,813	33,005	29,300	26,571	28,196	27,659	26,233	25,618	33,755	25,790	32,577
1927.....	31,268	27,439	34,192	32,007	31,270	33,008	30,750	31,653	33,969	34,991	33,282	38,938
1928.....	37,884	32,740	44,786	41,778	45,270	45,455	35,085	35,102	38,725	45,189	45,469	52,727

1 Revised to include 8 banks in Houston, Tex., figures for which did not become available until 1927.

Source: Federal Reserve Board



No. 302—DEBITS TO INDIVIDUAL ACCOUNTS: VOLUME REPORTED BY BANKS  
IN 141 PRINCIPAL CITIES—Continued

District cities	1920	1921	1922	1923	1924	1925	1926	1927	1928
<b>Chicago district—Continued</b>									
Fort Wayne, Ind.	411	346	398	472	485	522	510	519	560
Grand Rapids, Mich.	1,152	978	740	801	803	1,026	1,040	995	1,052
Indianapolis, Ind.	2,020	1,631	1,706	1,890	1,811	1,884	2,207	2,223	2,479
Kalamazoo, Mich.	278	212	218	249	245	273	292	307	314
Lansing, Mich.	318	270	296	416	352	403	402	385	420
Milwaukee, Wis.	3,533	2,766	2,886	3,283	3,142	3,398	3,620	3,700	3,710
Peoria, Ill.	573	408	429	474	487	574	571	578	614
Rockford, Ill.	370	241	239	288	293	339	381	398	432
Stout City, Iowa	825	482	771	898	934	1,033	976	867	699
South Bend, Ind.	214	281	370	471	487	594	608	588	596
Waterloo, Ind.	218	113	177	217	211	221	236	244	273
<b>St. Louis district:</b>									
Evansville, Ind.	284	258	341	387	354	472	492	581	582
Little Rock, Ark.	534	507	555	732	805	884	979	944	995
Louisville, Ky.	1,217	1,555	1,645	1,909	1,998	2,202	2,358	2,312	2,458
Memphis, Tenn.	1,773	1,203	1,422	1,736	1,670	1,825	1,821	1,952	1,912
St. Louis, Mo.	18,755	6,868	6,975	8,033	8,006	8,914	9,000	8,951	9,348
<b>Minneapolis district:</b>									
Aberdeen, S. Dak.	97	71	66	67	73	84	81	81	90
Billings, Mont.	122	90	89	97	86	91	95	100	117
Duluth, Minn.	1,291	911	885	921	1,270	1,277	954	1,112	1,094
Fargo, N. Dak.	177	132	135	118	139	173	186	188	229
Grand Forks, N. Dak.	93	68	81	95	84	101	108	99	103
Helena, Mont.	132	128	118	113	114	114	108	109	116
Minneapolis, Minn.	4,650	3,581	3,609	3,885	4,408	5,090	4,684	4,838	5,295
St. Paul, Minn.	12,232	1,706	1,901	2,072	1,974	2,037	1,987	2,071	2,148
Superior, Wis.	109	98	87	97	92	93	98	99	104
<b>Kansas City district:</b>									
Albuquerque, N. Mex.	99	86	105	111	118	121	132	144	155
Bartlesville, Okla.	190	115	122	138	151	163	251	289	213
Colorado Springs, Colo.	175	114	139	150	155	185	181	181	202
Denver, Colo.	2,443	1,723	1,798	1,931	1,977	2,130	2,159	2,119	2,196
Joplin, Mo.	186	107	131	168	173	210	222	187	172
Kansas City, Kan.	214	180	190	239	234	287	245	246	247
Kansas City, Mo.	4,706	3,698	3,679	4,176	4,016	4,415	4,333	4,656	5,077
Muskogee, Okla.	301	203	310	208	151	154	145	145	146
Oklahoma City, Okla.	1,271	1,059	973	939	913	1,036	1,194	1,202	1,364
Omaha, Neb.	3,022	2,137	2,312	2,456	2,267	2,437	2,387	2,408	2,601
Pueblo, Colo.	269	220	196	210	232	216	217	218	262
St. Joseph, Mo.	1,001	878	707	739	730	742	748	682	714
Topeka, Kans.	256	188	171	139	185	211	212	230	218
Tulsa, Okla.	1,490	995	1,186	1,132	1,099	1,269	1,532	1,577	1,658
Wichita, Kans.	721	528	532	544	508	557	596	608	820
<b>Dallas district:</b>									
Austin, Tex.	192	154	172	204	218	249	238	238	238
Beaumont, Tex.	216	170	174	195	199	214	259	288	301
Dallas, Tex.	2,207	1,755	1,867	2,076	2,179	2,527	2,542	2,620	2,808
El Paso, Tex.	493	392	373	366	309	307	381	385	426
Fort Worth, Tex.	1,320	1,215	1,323	1,033	892	909	1,018	1,139	1,277
Houston, Tex.	1,910	1,422	1,344	1,430	1,500	1,984	2,116	2,186	2,319
Shreveport, La.	418	346	385	423	428	474	484	468	506
Texarkana, Tex.	111	80	85	114	103	113	126	126	128
Tucson, Ariz.	85	84	87	92	102	109	109	111	128
Waco, Tex.	228	190	200	234	228	221	201	221	224
<b>San Francisco district:</b>									
Boise, Idaho.	169	137	147	150	140	151	163	169	187
Fresno, Calif.	632	576	608	613	400	468	485	495	436
Long Beach, Calif.	284	291	423	710	607	572	591	580	674
Los Angeles, Calif.	5,243	5,385	6,212	8,419	8,921	9,458	10,475	11,169	12,912
Oakland, Calif.	1,213	975	1,088	1,451	1,481	1,720	2,065	2,607	3,017
Ogden, Utah	229	150	260	346	286	320	249	226	234
Pasadena, Calif.	286	272	305	379	387	417	445	481	487
Portland, Oreg.	2,565	1,789	1,652	1,867	1,942	1,999	2,195	2,046	2,202
Reno, Nev.	182	132	125	106	96	104	111	114	123
Sacramento, Calif.	709	715	756	538	520	438	394	480	606
Salt Lake City, Utah	918	771	702	766	780	865	865	892	927
San Diego, Calif.	426	408	469	553	580	669	771	743	753
San Francisco, Calif.	11,368	9,289	8,638	9,482	9,768	11,496	12,598	15,052	18,384
Seattle, Wash.	2,377	1,650	1,807	2,051	2,167	2,425	2,551	2,616	2,958
Spokane, Wash.	685	515	532	598	567	627	670	668	686
Stockton, Calif.	296	247	265	299	286	317	325	343	352
Tacoma, Wash.	589	441	446	465	480	524	548	539	559
Yakima, Wash.	168	127	127	124	127	160	162	160	173

<sup>1</sup> Revised figure partly estimated.<sup>2</sup> Includes figures for Charleston, S. C., for the first 4 months and figures for Greenville, S. C., for the last 8 months of the year. Greenville substituted for Charleston, in national summaries beginning May, 1928.<sup>3</sup> Figures for Muskogee prior to December, 1923, include debits to accounts of banks.<sup>4</sup> Includes debits of \$61,250,000 for June–December, 1927, of 10 banks not reporting until June, 1927.<sup>5</sup> Revised to include 8 banks, figures for which did not become available until 1927.

Source: Federal Reserve Board.

## 12. WEALTH

(Data in this section relate to continental United States)

### No. 303.—ESTIMATED NATIONAL WEALTH OF THE UNITED STATES: TOTAL, 1850 TO 1922, AND BY CLASSES OF PROPERTY, 1900 TO 1922

NOTE.—Estimates of national wealth for the earlier censuses were not made by precisely the same methods used more recently and are not closely comparable. (Changes in buying power of money, as indicated by levels of prices and wages, materially affect the comparisons (see price tables in sec. 14)

[All figures, except per capita, in millions of dollars]

Year	Amount (millions of dollars)			Amount per capita (dollars)		
	Total	Taxable	Exempt	Total	Taxable	Exempt
1850.....	7, 136	7, 136	-----	308	308	-----
1860.....	16, 160	16, 160	-----	514	514	-----
1870 (currency basis).....	30, 069	30, 069	-----	780	780	-----
1870 (gold basis).....	24, 055	24, 055	-----	624	624	-----
1880.....	43, 642	41, 642	2, 000	870	830	40
1890.....	65, 037	61, 204	3, 833	1, 036	975	61
1900.....	88, 517	82, 305	6, 213	1, 165	1, 063	82
1904.....	107, 104	100, 273	6, 831	1, 318	1, 234	84
1912.....	<sup>1</sup> 186, 300	<sup>1</sup> 173, 986	12, 314	1, 950	1, 820	129
1922.....	320, 804	300, 298	20, 506	2, 918	2, 731	186

  

Form of wealth	1900	1904	1912	1922
Grand total.....	88, 517	107, 104	<sup>1</sup> 186, 300	320, 804
Real estate, plant and equipment, total.....	69, 848	83, 801	141, 700	229, 406
Real property taxed.....	46, 325	55, 510	<sup>2</sup> 96, 923	155, 909
Real property exempt.....	6, 213	6, 831	12, 314	20, 506
Livestock.....	3, 306	4, 074	6, 238	5, 807
Farm implements and machinery.....	750	845	1, 368	2, 065
Gold and silver coin and bullion.....	1, 677	1, 899	2, 617	4, 278
Manufacturing machinery, tools, etc.....	2, 541	3, 298	6, 091	15, 783
Railroads and their equipment.....	9, 036	11, 245	16, 149	19, 951
Motor vehicles.....	-----	-----	-----	4, 567
Transportation and transmission enterprises (except railroads) total.....	3, 495	4, 841	10, 265	15, 414
Street railways.....	1, 576	2, 220	4, 507	4, 878
Telegraph systems.....	212	227	223	204
Telephone systems.....	400	586	1, 061	1, 746
Pullman and other private cars not owned by railroads.....	99	123	123	345
Pipelines.....	-----	-----	-----	500
Shipping and canals.....	538	846	<sup>3</sup> 1, 491	<sup>4</sup> 2, 951
Irrigation enterprises.....	-----	-----	361	-----
Privately owned waterworks.....	268	275	290	361
Privately owned central electric light and power stations.....	403	563	2, 099	4, 229
All other, total.....	15, 174	18, 482	34, 334	75, 984
Agricultural products.....	1, 455	1, 889	5, 240	5, 466
Manufactured products.....	6, 087	7, 409	14, 694	28, 423
Imported merchandise.....	425	496	827	1, 549
Mining products.....	327	408	816	730
Clothing and personal ornaments.....	2, 000	2, 500	4, 295	-----
Furniture, carriages, etc.....	4, 880	5, 750	8, 463	39, 816

<sup>1</sup> From page 11, 1880 census volume, Valuation, Taxation, and Public Indebtedness.

<sup>2</sup> Differs from estimate as published in 1912 because of revision of estimate for taxed real property in Oklahoma.

<sup>3</sup> Includes \$402,000,000 value of ships belonging to the United States Navy.

<sup>4</sup> Includes \$1,446,000,000 value of ships belonging to the United States Navy.

Source. Bureau of the Census, Department of Commerce.

## NO. 304.—WEALTH; ESTIMATES FOR EACH GEOGRAPHIC

NOTE.—See headnotes, Tables 303 and 305. For totals see Table 305. For assessed value

[All figures in thou

Division and State	Real property and improvements		Livestock		Farm implements and machinery		Manufacturing machinery, tools, and implements	
	1912	1922	1912	1922	1912	1922	1912	1922
United States	109,236,928	176,414,444	6,238,389	5,807,104	1,368,225	2,604,638	6,091,451	15,783,260
New England	7,248,043	13,173,296	152,412	147,822	53,648	69,703	766,480	2,007,629
Maine	485,859	1,019,946	32,745	32,987	15,628	20,730	69,941	148,362
New Hampshire	335,212	664,968	16,015	16,588	6,020	6,911	38,562	116,796
Vermont	255,994	395,370	30,651	35,296	10,695	17,605	19,089	47,350
Massachusetts	4,118,216	7,156,110	43,149	35,082	12,111	13,775	377,873	1,046,430
Rhode Island	600,747	912,419	6,875	5,261	1,884	93,860	211,496	
Connecticut	1,452,015	3,024,433	22,977	22,608	7,310	9,025	167,155	437,195
Middle Atlantic	30,315,702	41,522,594	519,258	466,546	177,726	279,728	1,904,416	5,328,850
New York	16,910,233	20,775,834	263,578	225,149	89,173	134,379	813,601	2,133,897
New Jersey	3,856,915	5,850,537	45,848	37,872	13,865	18,028	303,596	999,080
Pennsylvania	9,548,524	14,914,123	209,827	203,524	74,688	127,321	877,219	2,193,873
East North Central	23,748,446	37,400,645	1,301,591	1,194,289	289,229	533,219	1,415,248	4,313,565
Ohio	5,173,708	10,176,297	273,012	248,243	54,181	86,177	423,068	1,380,529
Indiana	2,957,867	4,654,789	227,006	203,370	43,733	80,633	178,385	473,498
Illinois	10,046,320	12,585,726	386,701	319,023	79,474	159,557	451,299	1,194,793
Michigan	3,067,379	5,790,479	184,783	167,484	54,141	84,200	190,266	831,778
Wisconsin	2,503,172	4,210,354	229,489	256,164	57,700	122,652	163,225	482,907
West North Central	18,690,287	29,199,775	1,838,987	1,664,077	403,249	848,737	383,455	951,731
Minnesota	3,391,615	5,204,208	217,832	228,685	56,775	132,862	83,648	241,484
Iowa	5,111,230	7,173,551	491,014	466,802	102,981	228,773	58,530	143,628
Missouri	3,204,059	5,796,306	308,101	248,056	55,328	88,585	128,038	333,027
North Dakota	1,261,388	1,625,993	125,614	96,225	49,373	84,067	5,245	9,490
South Dakota	699,692	2,072,618	145,815	152,592	38,101	85,646	6,044	11,048
Nebraska	2,316,850	3,530,655	265,474	250,865	48,112	104,500	35,084	86,808
Kansas	2,705,483	3,796,474	284,537	218,352	52,074	104,275	49,376	126,266
South Atlantic	7,536,325	16,662,387	485,684	507,101	107,218	189,116	545,735	1,182,168
Delaware	172,148	328,375	8,795	7,233	3,417	4,910	16,694	52,085
Maryland	1,345,484	1,968,289	45,904	42,821	12,509	20,007	85,043	219,397
District of Columbia	902,024	1,274,899	1,795	542	84	66	13,786	22,007
Virginia	1,176,104	2,772,373	35,954	27,653	19,757	35,576	66,657	164,149
West Virginia	1,399,190	2,293,693	55,993	58,043	7,406	13,156	60,272	119,958
North Carolina	700,300	2,371,365	85,068	103,397	20,316	33,853	85,120	238,327
South Carolina	506,607	1,189,944	61,304	61,927	15,605	32,945	93,943	132,579
Georgia	904,984	1,954,736	106,429	101,764	23,177	39,908	90,429	159,411
Florida	429,484	1,561,713	34,422	38,716	4,942	8,696	28,791	74,181
East South Central	3,381,632	6,923,148	439,418	397,499	80,654	137,296	222,239	459,293
Kentucky	1,139,434	1,964,939	136,524	112,090	21,962	34,593	41,219	97,856
Tennessee	831,914	2,499,378	126,175	115,059	22,504	42,932	50,630	145,206
Alabama	933,661	1,419,872	86,921	84,718	17,813	26,821	95,250	160,939
Mississippi	476,623	1,138,959	89,798	85,632	18,375	32,900	35,120	55,242
West South Central	7,227,378	11,047,953	722,173	587,968	128,079	227,326	250,665	518,270
Arkansas	890,977	1,431,157	83,302	74,514	18,487	36,264	30,525	48,928
Louisiana	1,028,989	1,531,235	64,773	65,511	17,065	28,139	88,307	164,146
Oklahoma	1,699,348	2,072,955	174,194	120,136	30,404	57,031	21,965	97,857
Texas	3,608,064	5,902,606	394,904	327,807	62,123	105,892	109,686	208,339
Mountain	2,799,847	6,777,184	460,555	514,601	55,555	145,223	183,747	296,726
Montana	450,272	1,223,935	91,708	98,904	11,913	45,353	6,199	48,928
Idaho	143,201	898,175	58,398	70,411	11,912	30,635	18,698	34,723
Wyoming	90,281	589,746	54,435	59,682	4,129	8,624	3,044	28,410
Colorado	1,223,512	1,758,446	83,000	100,664	14,401	35,059	91,354	86,808
New Mexico	147,057	440,772	55,004	47,068	4,717	6,806	3,665	4,735
Arizona	182,409	815,594	43,997	57,668	1,992	6,365	12,610	36,302
Utah	376,068	795,047	39,302	53,065	4,777	9,493	24,910	50,507
Nevada	186,107	255,469	29,651	27,159	1,714	2,828	3,786	6,313
Pacific	8,289,268	13,707,532	318,336	327,202	73,872	174,290	369,471	726,030
Washington	1,888,850	3,267,299	63,242	60,018	18,798	40,416	111,049	203,604
Oregon	1,163,594	2,089,511	74,362	75,176	14,545	31,242	38,108	83,651
California	5,236,822	8,360,722	175,732	191,108	39,529	102,632	220,314	438,775

1 Not distributed by States in 1922, total \$4,278,155,000

2 Not shown separately in 1912.

3 Differs from estimate as published in 1912 because of revision of estimate for taxed real property in Oklahoma.

4 Includes \$402,352,000 value of ships belonging to the United States Navy and \$290,000,000 value of privately owned water-supply systems not distributed by States.

## DIVISION AND STATE, BY CLASSES OF TANGIBLE PROPERTY

tion of property subject to general property tax in 1925, by States, see Table 224, p 220  
 sands of dollars]

Gold and silver coin and bullion <sup>1</sup>	Railroads and their equipment		Motor vehicles <sup>2</sup>	Street railways, shipping, waterworks, etc.		All other		Division and State
	1912	1912 (revised)		1912	1912	1912	1912	
	1912	1912 (revised)	1912	1912	1912	1912	1912	
2, 616, 643	16, 148, 532	19, 950, 800	4, 567, 407	10, 265, 207	15, 414, 447	34, 334, 291	80, 261, 762	United States.
168, 386	613, 892	759, 764	299, 461	667, 812	983, 968	2, 247, 249	6, 972, 673	New England
14, 779	97, 342	119, 353	35, 044	77, 912	96, 371	223, 533	533, 638	Maine.
8, 023	85, 204	104, 699	18, 380	31, 073	42, 521	137, 796	403, 272	New Hampshire.
6, 500	43, 895	63, 953	16, 170	20, 642	43, 621	117, 352	232, 675	Vermont.
101, 876	213, 277	208, 013	146, 249	348, 842	530, 538	1, 165, 798	3, 784, 642	Massachusetts.
13, 603	28, 277	34, 671	25, 297	53, 772	65, 130	187, 578	608, 495	Rhode Island.
23, 605	143, 897	179, 075	58, 321	135, 571	203, 787	415, 192	1, 349, 951	Connecticut
399, 203	3, 190, 418	3, 914, 682	824, 572	2, 792, 250	4, 277, 011	8, 012, 298	21, 051, 284	Middle Atlantic.
632, 555	1, 206, 211	1, 479, 682	384, 113	1, 787, 202	2, 594, 070	3, 961, 420	9, 326, 138	New York
54, 897	434, 057	532, 263	132, 323	302, 215	414, 776	999, 917	3, 809, 280	New Jersey.
211, 751	1, 550, 150	1, 902, 737	308, 136	702, 833	1, 268, 165	3, 050, 961	7, 915, 866	Pennsylvania.
488, 764	3, 184, 542	3, 989, 211	1, 151, 490	2, 035, 017	2, 783, 670	7, 144, 773	17, 476, 925	East North Central.
112, 275	821, 906	1, 009, 197	324, 733	584, 793	754, 071	1, 679, 758	4, 560, 300	Ohio.
57, 445	644, 519	790, 298	176, 518	286, 567	358, 930	963, 428	2, 091, 690	Indiana.
205, 185	942, 118	1, 221, 143	292, 664	748, 713	982, 060	2, 640, 355	5, 404, 828	Illinois.
63, 658	455, 281	571, 827	216, 492	268, 201	442, 679	1, 004, 709	3, 299, 922	Michigan.
50, 201	320, 718	396, 746	141, 083	146, 743	225, 930	856, 522	2, 030, 185	Wisconsin
285, 898	2, 715, 448	3, 333, 141	768, 598	843, 053	1, 268, 585	5, 469, 983	7, 964, 238	West North Central
51, 532	449, 603	554, 570	141, 553	231, 846	285, 818	949, 426	1, 758, 733	Minnesota.
49, 566	476, 208	533, 887	133, 655	133, 832	246, 538	1, 235, 015	1, 434, 848	Iowa.
93, 140	499, 477	612, 795	145, 789	267, 557	404, 419	1, 115, 248	2, 342, 431	Missouri
12, 454	249, 183	305, 530	36, 036	17, 052	34, 387	392, 126	264, 066	North Dakota.
12, 355	187, 283	229, 631	46, 076	25, 802	37, 190	272, 174	291, 167	South Dakota.
30, 453	310, 258	380, 413	95, 067	79, 476	110, 217	635, 104	761, 550	Nebraska.
36, 418	543, 436	666, 315	120, 422	87, 488	150, 016	820, 890	1, 081, 438	Kansas.
228, 712	1, 721, 552	2, 134, 773	395, 355	680, 270	1, 069, 316	3, 285, 351	7, 028, 245	South Atlantic.
3, 936	17, 876	21, 919	8, 916	20, 411	26, 630	61, 639	175, 692	Delaware.
8, 723	149, 116	133, 100	61, 561	165, 625	257, 354	403, 079	1, 238, 211	Maryland.
8, 779	17, 315	21, 231	19, 996	64, 168	77, 745	163, 754	280, 694	Dist of Columbia.
37, 837	408, 626	501, 972	63, 113	103, 842	178, 308	503, 635	1, 083, 429	Virginia.
23, 590	357, 238	441, 524	41, 297	67, 306	133, 319	456, 936	619, 935	West Virginia.
37, 627	204, 606	251, 694	67, 779	44, 410	81, 257	507, 962	1, 395, 438	North Carolina.
25, 057	130, 580	160, 166	35, 098	55, 766	83, 227	366, 736	708, 959	South Carolina.
45, 623	245, 422	319, 619	53, 489	129, 509	169, 070	616, 460	1, 098, 762	Georgia.
15, 090	189, 773	233, 548	44, 106	29, 233	62, 406	205, 150	427, 125	Florida.
149, 235	887, 937	1, 092, 809	170, 182	304, 131	491, 510	1, 945, 457	3, 318, 858	East South Central.
41, 650	256, 492	314, 731	57, 337	91, 800	161, 468	547, 922	939, 377	Kentucky.
39, 068	216, 745	269, 323	50, 734	118, 787	148, 390	477, 855	957, 179	Tennessee.
38, 212	240, 989	295, 534	33, 496	65, 269	138, 895	537, 315	841, 718	Alabama.
30, 305	173, 711	213, 021	28, 595	28, 275	42, 757	382, 365	580, 584	Mississippi.
175, 407	1, 321, 078	1, 625, 144	349, 397	346, 620	760, 984	3, 037, 450	4, 742, 847	West South Central.
27, 064	226, 202	278, 425	31, 302	32, 908	60, 667	407, 436	583, 360	Arkansas.
32, 739	215, 562	264, 484	38, 439	93, 342	143, 488	449, 035	1, 181, 416	Louisiana.
34, 258	359, 550	441, 267	89, 925	48, 416	171, 752	749, 411	942, 001	Oklahoma.
61, 346	519, 764	640, 968	189, 731	171, 954	385, 077	1, 431, 568	2, 030, 468	Texas.
89, 651	1, 330, 859	1, 635, 809	180, 400	564, 515	508, 090	1, 140, 075	2, 173, 288	Mountain.
11, 119	258, 561	318, 993	23, 308	106, 010	111, 834	196, 976	351, 934	Montana.
7, 758	130, 449	159, 946	19, 934	95, 201	53, 933	113, 480	266, 184	Idaho.
3, 593	104, 966	128, 700	11, 397	26, 724	25, 039	68, 561	124, 641	Wyoming.
23, 696	297, 625	364, 963	59, 893	197, 642	143, 485	379, 022	680, 094	Colorado.
6, 645	169, 032	207, 660	9, 184	18, 070	16, 671	10, 929	113, 880	New Mexico.
4, 729	85, 531	105, 531	13, 736	37, 983	30, 469	86, 474	243, 336	Arizona.
9, 580	144, 270	177, 314	18, 575	57, 964	101, 497	139, 908	329, 998	Utah.
2, 531	140, 425	172, 202	4, 373	24, 921	20, 162	64, 725	53, 210	Nevada.
153, 387	1, 182, 806	1, 465, 867	447, 972	1, 339, 187	1, 489, 438	2, 051, 656	5, 235, 289	Pacific.
35, 800	316, 244	390, 042	79, 904	227, 342	247, 806	516, 733	842, 416	Washington.
25, 140	293, 002	365, 252	50, 373	145, 747	184, 070	302, 941	540, 184	Oregon.
42, 447	573, 560	710, 573	317, 695	966, 098	1, 057, 560	1, 231, 982	3, 852, 669	California.

<sup>1</sup> Includes \$1,445,992,000 value of ships belonging to the United States Navy and \$360,885,000 privately owned water-supply systems not distributed by States.

<sup>2</sup> Includes \$4,278,155,000 value of gold and silver coin and bullion not distributed by States.

Source: Bureau of the Census, Department of Commerce

# **No. 305.—WEALTH: ESTIMATED VALUE OF ALL TANGIBLE PROPERTY SITUATED IN EACH GEOGRAPHIC DIVISION AND STATE**

Note.—See headnote to Table 303. This table shows, not the value of property owned by the citizens of each State, but that of the physical property lying in each State wherever the securities or other evidences of title representing it may be found or owned. The per capita figures thus do not represent the average wealth of the citizens of each State.

Division and State	Amount (millions of dollars)						Total amount per capita (dollars)				
	Total					Taxable 1922					
	1890	1900	1904	1912 <sup>1</sup>	1922 <sup>2</sup>		1890	1900	1904	1912	1922
<b>United States</b> .....	<b>65,037</b>	<b>88,517</b>	<b>107,104</b>	<b>133,300</b>	<b>320,804</b>	<b>300,298</b>	<b>1,036</b>	<b>1,165</b>	<b>1,318</b>	<b>1,950</b>	<b>2,918</b>
<b>New England</b> .....	<b>5,293</b>	<b>7,753</b>	<b>8,823</b>	<b>11,918</b>	<b>24,415</b>	<b>22,552</b>	<b>1,111</b>	<b>1,386</b>	<b>1,493</b>	<b>1,761</b>	<b>3,186</b>
Maine.....	489	682	776	1,018	2,007	1,019	740	982	1,096	1,351	2,586
New Hampshire.....	325	472	517	658	1,374	1,283	863	1,147	1,214	1,513	3,074
Vermont.....	266	330	360	505	842	799	799	960	1,035	1,407	2,389
Massachusetts.....	2,804	4,359	4,956	6,381	12,981	11,895	1,252	1,554	1,672	1,827	3,243
Rhode Island.....	504	711	799	986	1,925	1,814	1,459	1,658	1,702	1,737	3,086
Connecticut.....	835	1,199	1,415	2,370	5,286	4,842	1,119	1,320	1,453	2,041	3,614
<b>Middle Atlantic</b> .....	<b>16,213</b>	<b>24,584</b>	<b>29,478</b>	<b>47,901</b>	<b>77,663</b>	<b>71,358</b>	<b>1,277</b>	<b>1,589</b>	<b>1,763</b>	<b>2,374</b>	<b>3,352</b>
New York.....	8,577	12,505	14,769	25,664	37,035	33,019	1,430	1,720	1,868	2,694	3,436
New Jersey.....	1,445	2,734	3,236	6,011	11,794	11,170	1,000	1,451	1,547	2,240	3,524
Pennsylvania.....	6,191	9,315	11,473	16,226	28,534	27,169	1,177	1,478	1,707	2,036	3,187
<b>East North Central</b> .....	<b>15,041</b>	<b>19,662</b>	<b>23,991</b>	<b>39,608</b>	<b>68,823</b>	<b>65,516</b>	<b>1,117</b>	<b>1,230</b>	<b>1,416</b>	<b>2,112</b>	<b>3,063</b>
Ohio.....	3,951	5,019	5,947	9,123	18,489	17,553	1,076	1,207	1,367	1,861	3,048
Indiana.....	2,095	2,607	3,106	5,359	8,830	8,337	956	1,036	1,174	1,954	2,942
Illinois.....	5,087	6,977	8,817	15,500	22,233	21,931	1,324	1,447	1,689	2,663	3,295
Michigan.....	2,095	2,854	3,282	5,298	11,405	10,890	1,001	1,096	1,297	1,823	2,899
Wisconsin.....	1,833	2,405	2,839	4,328	7,866	7,545	1,087	1,163	1,292	1,808	2,887
<b>West North Central</b> .....	<b>10,214</b>	<b>13,788</b>	<b>16,830</b>	<b>30,610</b>	<b>46,019</b>	<b>44,080</b>	<b>1,149</b>	<b>1,332</b>	<b>1,546</b>	<b>2,567</b>	<b>3,588</b>
Minnesota.....	1,692	2,514	3,344	5,432	8,548	8,237	1,300	1,435	1,729	2,529	3,442
Iowa.....	2,287	3,308	4,048	7,709	10,612	10,197	1,196	1,509	1,828	3,465	4,274
Missouri.....	2,398	3,244	3,700	5,728	9,982	9,612	895	1,044	1,147	1,717	2,903
North Dakota.....	337	642	736	2,113	2,467	2,167	1,844	1,690	1,771	3,329	3,692
South Dakota.....	426	553	680	1,327	2,026	2,044	1,253	1,376	1,530	3,125	4,482
Nebraska.....	1,276	1,626	2,000	3,721	5,320	5,128	1,205	1,525	1,882	3,049	4,004
Kansas.....	1,799	1,988	2,253	4,580	6,264	5,995	1,261	1,318	1,468	2,632	3,493
<b>South Atlantic</b> .....	<b>5,133</b>	<b>6,679</b>	<b>7,987</b>	<b>14,589</b>	<b>29,169</b>	<b>27,262</b>	<b>579</b>	<b>640</b>	<b>716</b>	<b>1,159</b>	<b>2,005</b>
Delaware.....	176	212	230	305	626	558	1,043	1,146	1,204	1,478	2,728
Maryland.....	1,085	1,317	1,512	2,236	3,691	3,742	1,041	1,109	1,213	1,694	2,666
District of Columbia.....	344	920	1,040	1,172	1,697	1,219	1,491	3,332	3,491	3,418	3,879
Virginia.....	1,102	1,288	1,680	2,402	4,892	4,542	521	594	606	1,140	2,050
West Virginia.....	439	660	840	2,428	4,678	4,446	575	688	810	1,897	3,040
North Carolina.....	584	682	842	1,685	4,543	4,381	361	360	420	740	1,703
South Carolina.....	401	485	586	1,261	2,405	2,289	348	362	414	811	1,385
Georgia.....	852	936	1,168	2,163	3,897	3,726	464	422	493	802	1,306
Florida.....	390	356	431	937	2,440	2,329	995	673	729	1,167	2,358
<b>East South Central</b> .....	<b>3,137</b>	<b>3,654</b>	<b>4,285</b>	<b>7,411</b>	<b>12,990</b>	<b>12,348</b>	<b>488</b>	<b>484</b>	<b>536</b>	<b>861</b>	<b>1,437</b>
Kentucky.....	1,172	1,365	1,528	2,277	3,582	3,401	631	636	675	981	1,459
Tennessee.....	888	967	1,104	1,864	4,228	3,975	502	473	550	848	1,773
Alabama.....	623	775	965	2,015	3,002	2,891	412	424	494	913	1,244
Mississippi.....	454	567	688	1,235	2,178	2,081	352	359	416	667	1,216
<b>West South Central</b> .....	<b>3,264</b>	<b>4,553</b>	<b>5,768</b>	<b>13,209</b>	<b>19,861</b>	<b>18,837</b>	<b>691</b>	<b>697</b>	<b>796</b>	<b>1,422</b>	<b>1,857</b>
Arkansas.....	455	604	804	1,722	2,600	2,520	403	401	580	1,054	1,439
Louisiana.....	495	815	1,032	1,990	3,417	3,237	443	590	694	1,183	1,855
Oklahoma.....	3,208	3,812	4,936	13,118	3,993	3,627	800	1,027	1,092	1,684	1,864
Texas.....	2,106	2,322	2,837	6,379	9,851	9,453	942	762	841	1,361	2,010
<b>Mountain</b> .....	<b>2,927</b>	<b>3,244</b>	<b>3,773</b>	<b>6,585</b>	<b>12,006</b>	<b>10,455</b>	<b>2,250</b>	<b>1,925</b>	<b>2,228</b>	<b>2,312</b>	<b>3,435</b>
Montana.....	453	614	746	1,133	2,223	1,990	3,429	2,523	2,633	3,792	3,691
Idaho.....	208	276	343	579	1,534	1,258	2,464	1,708	1,795	1,598	3,301
Wyoming.....	170	281	330	356	976	650	2,796	3,041	3,297	2,253	4,663
Colorado.....	1,146	938	1,207	2,315	3,230	2,860	2,780	1,738	2,046	2,702	3,285
New Mexico.....	232	268	332	495	852	737	1,507	1,374	1,587	1,388	2,299
Arizona.....	139	293	306	457	1,314	1,158	3,168	2,140	2,239	2,052	3,512
Utah.....	349	413	488	796	1,535	1,361	1,681	1,491	1,609	2,016	3,247
Nevada.....	180	191	221	454	642	441	3,941	4,503	5,214	5,003	6,998
<b>Pacific</b> .....	<b>3,885</b>	<b>4,633</b>	<b>6,019</b>	<b>13,777</b>	<b>23,573</b>	<b>21,805</b>	<b>2,076</b>	<b>1,917</b>	<b>2,290</b>	<b>3,002</b>	<b>3,984</b>
Washington.....	761	782	1,052	3,183	5,122	4,696	2,177	1,509	1,803	3,040	3,600
Oregon.....	590	633	852	2,057	3,419	3,059	1,882	1,530	1,836	2,816	4,182
California.....	2,534	3,218	4,115	8,537	15,032	14,050	2,097	2,167	2,582	3,312	1,007

<sup>1</sup> Total differs from estimate as published in 1912 because of revision of estimate for taxed real property in Oklahoma. Includes \$402,000,000 value of ships belonging to the United States Navy and \$290,000,000 value of privately owned water-supply systems not distributed by States. Items for geographic divisions and States differ from estimate as published in 1912 because of redistribution of railroad values in accordance with the method employed in 1922.

<sup>2</sup> Total includes \$1,446,000,000 value of ships belonging to the United States Navy, \$361,000,000 privately owned water-supply systems, and \$4,278,000,000 gold and silver coin and bullion not distributed by States.

<sup>3</sup> Includes Indian Territory.

<sup>4</sup> Differs from estimate as published in 1912 because of revision of estimate for taxed real property Source: Bureau of the Census, Department of Commerce.

# 13. BUSINESS FINANCE

[Foreign Exchange Rates—Interest Rates—Insurance—Capital Issues—Stock Exchange Transactions—Wholesale and Retail Trade—Commercial Failures]

## No. 306.—FOREIGN EXCHANGE RATES ON CABLE TRANSFERS, NEW YORK

Country	Monetary unit	Mint par	Yearly average rate in dollars								
			1921	1922	1923	1924	1925	1926	1927	1928	
North America			Dollars								
Canada.....	Dollar.....	1.0000	0 8955	0 9848	0 9804	0.9873	0 9996	0 9999	0 9997	0.9991	
Cuba.....	Peso.....	1.0000		.9985	.9995	.9998	.9994	.9993	.9997	.9996	
Mexico <sup>1</sup> .....	do.....	.4985	4891	.4872	.4855	.4851	.4939	.4831	4720	.4811	
South America											
Argentina.....	Peso (gold).....	.9648	7300	8182	.7857	.7813	.9138	.9215	.9630	.9648	
Brazil.....	Milreis.....	<sup>2</sup> 1.196	1312	1295	1023	.1094	.1220	.1444	.1184	.1197	
Chile.....	Peso <sup>3</sup> .....	<sup>3</sup> 1.217	1206	1222	1224	.1054	.1160	.1208	.1207	.1215	
Colombia <sup>1</sup> .....	do.....	.9738	8809	9239	9518	.9917	.9835	.9845	.9769	.9769	
Peru <sup>1</sup> .....	Libra.....	4.8665	3 600	3 860	4 110	4.050	4 021	3 7410	3 7377	3.9705	
Uruguay <sup>1</sup> .....	Peso.....	1.0342	6861	7940	.7906	.8227	.9840	1 0147	1 0134	1.0266	
Venezuela <sup>1</sup> .....	Bolivar.....	.1930	1656	1838	.1894	.1923	.1929	.1926	.1898	.1925	
Europe.											
Austria <sup>1,4</sup> .....	Schilling <sup>4</sup> .....	.1407	4.00170	<sup>4</sup> 00098	<sup>4</sup> 00001	<sup>4</sup> 00001	.1406	.1407	.1408	.1407	
Belgium.....	Belga <sup>5</sup> .....	<sup>5</sup> 1.390	5.07446	<sup>5</sup> 07683	<sup>5</sup> 05219	<sup>5</sup> 04644	<sup>5</sup> 04758	<sup>5</sup> 03265	.1392	.1393	
Bulgaria <sup>1</sup> .....	Lev.....	<sup>6</sup> 0.072	0.00887	0.00888	.00884	.00728	.00732	.00721	.00724	.00721	
Czechoslovakia <sup>1</sup> .....	Koruna <sup>7</sup> .....	<sup>7</sup> 0.0206	.0128	.02415	.02955	.02954	.02966	.02962	.02962	.02963	
Denmark.....	Krone.....	.2680	1780	.2095	.1836	.1672	.2113	.2623	.2673	.2674	
Finland.....	Markka.....	<sup>8</sup> 0.252	.0192	.02163	.02683	.02508	.02522	.02521	.02520	.02517	
France.....	Franc.....	<sup>9</sup> 0.0392	.07455	.08201	.06081	.05237	.04767	.03243	.03924	.03921	
Germany.....	Reichsmark <sup>10</sup> .....	.2382	.01205	.00222	.00002	( <sup>10</sup> )	.2380	.2380	.2378	.2386	
Great Britain.....	Pound.....	4.8665	3 8491	4.4292	4 5748	4 4171	4 8289	4 8582	4 8610	4.8662	
Greece <sup>1</sup> .....	Drachma.....	<sup>11</sup> 0.1030	.0547	.03306	.01714	.01790	.01561	.01258	.01317	.01304	
Hungary <sup>1</sup> .....	Pengo <sup>12</sup> .....	.1749	<sup>12</sup> 00253	<sup>12</sup> 00091	<sup>12</sup> 00016	<sup>12</sup> 00002	<sup>12</sup> 00001	.1756	.1747	.1744	
Italy.....	Lira.....	<sup>13</sup> 0.0528	.04294	.04756	.04602	.04358	.03978	.03839	.05156	.05257	
Netherlands.....	Florin.....	.4020	3365	.3850	.3910	.3821	.4016	.4010	.4011	.4022	
Norway.....	Krone.....	.2680	1491	.1750	.1667	.1394	.1788	.2233	.2605	.2669	
Poland <sup>1</sup> .....	Zloty <sup>14</sup> .....	<sup>14</sup> 1.122	.00079	.000188	.000014	( <sup>14</sup> )	.1174	.1118	.1129	.1121	
Portugal <sup>1</sup> .....	Escudo.....	1 0805	.0975	.06670	.04253	.03385	.05040	.05125	.05029	.04468	
Rumania <sup>1</sup> .....	Leu.....	.1930	.0125	.00697	.00494	.00498	.00483	.00462	.00604	.00613	
Russia.....	Chervonetz.....	5 146					5 150	5 150	5 150		
Spain.....	Peseta.....	.1930	.1353	.1548	.1445	.1334	.1434	.1490	.1708	.1659	
Sweden.....	Krona.....	.2680	.2254	.2617	.2655	.2652	.2685	.2676	.2681	.2680	
Switzerland.....	Franc.....	.1930	.1735	.1907	.1806	.1822	.1933	.1931	.1923	.1926	
Yugoslavia <sup>1</sup> .....	Dinar.....	.1930	.0237	.01352	.01072	.01282	.01705	.01765	.01760	.01760	
Asia											
Hong Kong.....	Dollar.....	<sup>15</sup> 4.562		.5571	.5290	.5247	.5652	.5333	.4921	.5007	
China.....	Shanghai tael.....	<sup>15</sup> 6.884	.7078	.7493	.7202	.7268	.7577	.6842	.6210	.6430	
Do.....	Mexican dollar.....	<sup>15</sup> 4.595		.5493	.5302	.5236	.5555	.4902	.4503	.4647	
India.....	Rupee.....	.3650	.2622	.2874	.3111	.3178	.3026	.3633	.3631	.3647	
Japan.....	Yen.....	.4985	.4825	.4780	.4858	.4119	.4104	.4712	.4741	.4641	
Straits Settlements <sup>1</sup> .....	Singapore dollar.....	.5678	.4546	.5078	.5350	.5125	.5615	.5627	.5605	.5623	

<sup>1</sup> Data for 1921 and also for 1922 to 1925 for Colombia, Peru, and Venezuela compiled by the Bureau of Foreign and Domestic Commerce from publications of the individual countries

<sup>2</sup> Parity of the milreis was established at 11.96 cents by laws of Dec 18, 1920, and Jan. 5, 1927

<sup>3</sup> Quotations prior to 1923 are for the paper peso (1913 average, 19 53 cents). Beginning 1923, the currency was reestablished on a gold basis, the peso being devaluated to 12 17 cents

<sup>4</sup> Quotations for 1921 to 1924 are for the krone, par 20 26 cents

<sup>5</sup> Quotations prior to 1927 are for the franc (par 19 3 cents). The belga, which is equal to 5 francs, superseded the Belgian franc Oct. 26, 1926, and was quoted at par during November and December, 1926.

<sup>6</sup> The lev was stabilized at 0 72 cents, Nov 22, 1928, former par value, 10 3 cents

<sup>7</sup> Nominal par value, 20 26 cents. Stabilized in March, 1925, at 2 96 cents

<sup>8</sup> The pre-war par of the markka was 19 3 cents. In 1926 it was devaluated to a new gold parity of 2 52 cents

<sup>9</sup> In June, 1928, the currency was reestablished on a gold basis and the new parity of the franc fixed at 3 9179 cents. The former parity was 19 3 cents

<sup>10</sup> Prior to 1924 quotations are for paper marks (see monthly rates in Table 307). The new paper reichsmark currency issued the latter part of 1924 was thereafter quoted substantially at par (23 82 cents)

<sup>11</sup> In May, 1928, the drachma was reestablished on a gold basis and stabilized at a new parity of 1.30 cents, former parity, 19 3 cents

<sup>12</sup> Prior to 1924 quotations are for the paper krone (par 20 26 cents). On Jan 1, 1926, this was superseded by the pengo valued at 17 49 cents and exchangeable for 12,500 paper kronen.

<sup>13</sup> In December, 1927, the lira was stabilized at 5 26 cents. The former par value was 19 3 cents

<sup>14</sup> Prior to 1924 quotations are for Polish marks, par 23 82 cents, thereafter for the zloty. The average rate for January to April, 1924, was 11 5 cents per million marks, for June to December, 19 23 cents for 1 zloty. The par value of the zloty when adopted as the currency unit in 1924 was fixed at 19 3 cents, but in October, 1927, it was stabilized at 11 22

<sup>15</sup> Par of exchange varies with the price of silver, the standard of value; figures shown are calculated on the basis of the average price in 1928

Source Federal Reserve Board, except as noted.

## No. 307.—FOREIGN EXCHANGE RATES, NEW YORK, BY MONTHS

NOTE.—For par of exchange of monetary units and yearly average rate see Table 306

	Canada (dollar)	Mexico (peso)	Argentina (peso)	Brazil (milreis)	Chile (peso) <sup>1</sup>	Belgium (belga) <sup>2</sup>	France (franc)	German (reichs- mark) <sup>3</sup>
	<i>Dollars</i>	<i>Dollar</i>	<i>Dollar</i>	<i>Dollar</i>	<i>Dollar</i>	<i>Dollar</i>	<i>Dollar</i>	<i>Dollar</i>
1920:								
March.....	0 8938	-----	0 9841	0 2550	0 2140	0.0746	0 0719	0 0126
June.....	.8819	-----	.9610	.2510	.1899	.0830	.0792	.0256
September.....	.9037	-----	.8457	.1829	.1679	.0716	.0674	.0172
December.....	.8632	-----	.7873	.1525	.1422	.0624	.0592	.0137
1921:								
March.....	.8781	-----	.7820	.1513	.1476	.0735	.0703	.0160
June.....	.8876	-----	.6986	.1165	.1086	.0803	.0807	.0144
September.....	.8985	0 4860	.6963	.1237	.1071	.0717	.0728	.0096
December.....	.9277	4842	.7480	.1267	.1078	.0754	.0784	.0053
1922								
March.....	.9686	.4929	.8278	.1367	.1141	.0843	.0900	.0036
June.....	.9884	4848	.8186	.1372	.1264	.0822	.0876	.0032
September.....	.9993	.4830	.8108	.1254	.1373	.0723	.0766	.00068
December.....	.9945	.4845	.8557	.1195	.1241	.0664	.0723	.00014
1923								
March.....	.9806	.4886	.8415	.1109	.1267	.0548	.0632	.00005
June.....	.9766	.4837	.8047	.1043	.1340	.0540	.0630	.000010
September.....	.9765	.4857	.7485	.0973	.1238	.0490	.0586	.0188
December.....	.9759	.4850	.7233	.0934	.1066	.0458	.0525	.000227
1924								
March.....	.9696	.4823	.7655	.1145	.0977	.0387	.0468	.000220
June.....	.9844	.4822	.7889	.1075	.1060	.0456	.0525	.000234
September.....	.9994	.4898	.8003	.1009	.1044	.0494	.0530	.000238
December.....	.9965	.4881	.8832	.1151	.1133	.0497	.0540	.2380
1925:								
March.....	.9987	.4974	.8971	.1104	.1110	.0507	.0518	.2380
June.....	1 0000	.4966	.9133	.1089	.1132	.0470	.0477	.2380
September.....	.9999	.4985	.9171	.1352	.1202	.0440	.0471	.2380
December.....	.9996	.4875	.9421	.1417	.1216	.0453	.0374	.2381
1926								
January.....	.9980	.4850	.9413	.1484	.1204	.0454	.0377	.2380
February.....	.9965	.4850	.9327	.1478	.1212	.0454	.0368	.2381
March.....	.9963	.4856	.9033	.1449	.1208	.0423	.0358	.2380
April.....	1 0004	.4866	.9079	.1401	.1212	.0367	.0339	.2380
May.....	1 0007	.4828	.9131	.1468	.1204	.0312	.0315	.2380
June.....	1 0010	.4885	.9166	.1552	.1204	.0296	.0294	.2380
July.....	1 0013	.4887	.9205	.1556	.1205	.0242	.0247	.2380
August.....	1 0014	.4878	.9196	.1597	.1212	.0275	.0283	.2381
September.....	1 0014	.4873	.9220	.1519	.1213	.0272	.0285	.2381
October.....	1 0007	.4805	.9275	.1398	.1210	.0278	.0294	.2380
November.....	1 0013	.4720	.9239	.1297	.1205	.0391	.0342	.2375
December.....	.9998	.4667	.9328	.1185	.1204	.1391	.0395	.2380
1927								
January.....	.9984	.4683	.9385	.1168	.1202	.1391	.0396	.2372
February.....	.9984	.4707	.9472	.1184	.1200	.1390	.0392	.2370
March.....	.9990	.4701	.9598	.1185	.1200	.1390	.0391	.2371
April.....	1 0009	.4687	.9617	.1180	.1203	.1390	.0392	.2370
May.....	1 0007	.4659	.9620	.1181	.1202	.1390	.0392	.2369
June.....	.9994	.4642	.9644	.1180	.1202	.1389	.0392	.2369
July.....	.9985	.4654	.9655	.1179	.1202	.1390	.0391	.2374
August.....	.9994	.4739	.9684	.1182	.1203	.1391	.0392	.2379
September.....	1 0005	.4772	.9712	.1186	.1207	.1392	.0392	.2380
October.....	1 0011	.4767	.9716	.1192	.1217	.1393	.0392	.2386
November.....	1 0014	.4791	.9705	.1193	.1218	.1395	.0393	.2386
December.....	.9990	.4845	.9723	.1197	.1221	.1399	.0394	.2389
1928								
January.....	.9982	.4869	.9711	.1200	.1221	.1394	.0393	.2383
February.....	.9981	.4867	.9714	.1201	.1221	.1392	.0393	.2386
March.....	1 0000	.4874	.9725	.1203	.1221	.1394	.0393	.2390
April.....	1 0003	.4874	.9719	.1203	.1220	.1396	.0394	.2392
May.....	.9991	.4856	.9720	.1203	.1219	.1396	.0394	.2393
June.....	.9976	.4783	.9694	.1199	.1220	.1396	.0393	.2390
July.....	.9979	.4729	.9614	.1194	.1214	.1394	.0392	.2386
August.....	1 0000	.4749	.9590	.1194	.1208	.1391	.0391	.2383
September.....	1 0004	.4785	.9566	.1193	.1209	.1390	.0391	.2383
October.....	.9997	.4757	.9559	.1195	.1208	.1390	.0391	.2381
November.....	1 0000	.4789	.9582	.1194	.1206	.1390	.0391	.2382
December.....	.9979	.4798	.9575	.1189	.1207	.1391	.0391	.2383

<sup>1</sup> See note 3, Table 306.<sup>2</sup> Quotations prior to November, 1926, are for the franc. (See note 5, Table 306.)<sup>3</sup> Quotations prior to December, 1924, are for paper marks, par, \$0 2382.<sup>4</sup> Per million marks.<sup>5</sup> Per billion marks.

## No. 307.—FOREIGN EXCHANGE RATES, NEW YORK, BY MONTHS—Continued

	Great Britain (pound)	Italy (lira)	Netherlands (florin)	Spain (peseta)	Sweden (krona)	China, (Shanghai tael)	India (rupee)	Japan (yen)	Straits Settlements (Singapore dollar)
	Dollars	Dollar	Dollar	Dollar	Dollar	Dollars	Dollar	Dollar	Dollar
1920:									
March.....	3 7258	0 0532	0 3679	0 1760	0 2037	1. 4870	0. 4780	0 4751	-----
June.....	3 9498	. 0591	. 3614	. 1656	. 2183	1. 0605	. 4100	. 5141	-----
September.....	3 5103	. 0434	. 3169	. 1476	. 2021	1 0690	. 3361	. 5141	-----
December.....	3 4924	. 0349	. 3095	. 1307	. 1959	. 7883	. 2690	. 5035	-----
1921:									
March.....	3 9111	. 0385	. 3440	. 1397	. 2283	. 6423	. 2595	. 4859	-----
June.....	3 7815	. 0498	. 3328	. 1308	. 2256	. 6635	. 2455	. 4797	-----
September.....	3 7240	. 0420	. 3166	. 1302	. 2178	. 7300	. 2639	. 4820	0. 4246
December.....	4 1561	. 0444	. 3631	. 1465	. 2453	. 7532	. 2745	. 4792	. 4686
1922:									
March.....	4 3757	. 0511	. 3785	. 1565	. 2616	. 7075	. 2782	. 4735	. 4953
June.....	4 4519	. 0496	. 3871	. 1569	. 2581	. 7903	. 2891	. 4775	. 5114
September.....	4 4307	. 0427	. 3879	. 1530	. 2646	. 7701	. 2874	. 4810	. 5104
December.....	4 6098	. 0503	. 3984	. 1564	. 2695	. 7104	. 3065	. 4885	. 5301
1923:									
March.....	4 6957	. 0486	. 3949	. 1547	. 2600	. 7553	. 3157	. 4846	. 5481
June.....	4 6147	. 0457	. 3920	. 1492	. 2656	. 7217	. 3099	. 4905	. 5385
September.....	4 5422	. 0444	. 3930	. 1358	. 2655	. 7079	. 3060	. 4962	. 5319
December.....	4 3901	. 0434	. 3804	. 1304	. 2633	. 7225	. 3101	. 4701	. 5085
1924:									
March.....	4 2906	. 0428	. 3707	. 1273	. 2629	. 7000	. 2986	. 4290	. 5028
June.....	4 3199	. 0433	. 3744	. 1346	. 2654	. 7137	. 3049	. 4108	. 5019
September.....	4 4605	. 0438	. 3845	. 1324	. 2660	. 7527	. 3252	. 4060	. 5151
December.....	4 6958	. 0430	. 4042	. 1396	. 2695	. 7547	. 3529	. 3844	. 5399
1925:									
March.....	4 7763	. 0407	. 3992	. 1422	. 2695	. 7336	. 3567	. 4097	. 5510
June.....	4 8604	. 0383	. 4014	. 1457	. 2676	. 7609	. 3648	. 4083	. 5658
September.....	4 8465	. 0406	. 4021	. 1439	. 2682	. 7847	. 3663	. 4075	. 5659
December.....	4 8498	. 0403	. 4019	. 1418	. 2679	. 7568	. 3664	. 4319	. 5663
1926:									
January.....	4 8579	. 0404	. 4018	. 1415	. 2678	. 7475	. 3669	. 4417	. 5662
February.....	4 8634	. 0403	. 4008	. 1410	. 2678	. 7374	. 3676	. 4540	. 5663
March.....	4 8608	. 0402	. 4007	. 1409	. 2681	. 7271	. 3658	. 4539	. 5663
April.....	4 8622	. 0402	. 4013	. 1429	. 2679	. 7087	. 3618	. 4664	. 5665
May.....	4 8615	. 0387	. 4020	. 1453	. 2676	. 7178	. 3626	. 4695	. 5620
June.....	4 8601	. 0366	. 4018	. 1576	. 2680	. 7217	. 3629	. 4685	. 5621
July.....	4 8634	. 0335	. 4018	. 1572	. 2680	. 7130	. 3629	. 4707	. 5621
August.....	4 8586	. 0330	. 4011	. 1529	. 2677	. 6869	. 3636	. 4780	. 5615
September.....	4 8542	. 0367	. 4007	. 1522	. 2675	. 6660	. 3653	. 4840	. 5607
October.....	4 8503	. 0412	. 4000	. 1510	. 2673	. 5998	. 3615	. 4866	. 5607
November.....	4 8488	. 0421	. 3999	. 1515	. 2669	. 5943	. 3603	. 4907	. 5598
December.....	4 8512	. 0444	. 3999	. 1524	. 2672	. 5897	. 3605	. 4894	. 5594
1927:									
January.....	4 8526	. 0434	. 3999	. 1603	. 2671	. 6167	. 3642	. 4881	. 5596
February.....	4 8503	. 0432	. 4000	. 1673	. 2669	. 6375	. 3630	. 4884	. 5596
March.....	4 8540	. 0421	. 4001	. 1741	. 2675	. 6050	. 3630	. 4914	. 5596
April.....	4 8565	. 0502	. 4000	. 1764	. 2678	. 6201	. 3614	. 4837	. 5595
May.....	4 8570	. 0540	. 4012	. 1759	. 2675	. 6217	. 3623	. 4708	. 5599
June.....	4 8561	. 0558	. 4005	. 1720	. 2678	. 6274	. 3620	. 4669	. 5598
July.....	4 8551	. 0545	. 4006	. 1709	. 2678	. 6238	. 3611	. 4713	. 5596
August.....	4 8602	. 0544	. 4007	. 1690	. 2682	. 6038	. 3613	. 4733	. 5597
September.....	4 8635	. 0544	. 4008	. 1715	. 2688	. 6121	. 3634	. 4682	. 5599
October.....	4 8697	. 0546	. 4019	. 1725	. 2692	. 6183	. 3641	. 4657	. 5603
November.....	4 8740	. 0545	. 4036	. 1694	. 2692	. 6327	. 3645	. 4598	. 5607
December.....	4 8825	. 0538	. 4044	. 1666	. 2700	. 6379	. 3674	. 4619	. 5673
1928:									
January.....	4 8753	. 0529	. 4033	. 1710	. 2688	. 6375	. 3672	. 4688	. 5677
February.....	4 8748	. 0529	. 4026	. 1698	. 2684	. 6311	. 3652	. 4687	. 5670
March.....	4 8799	. 0528	. 4025	. 1682	. 2684	. 6305	. 3653	. 4715	. 5635
April.....	4 8820	. 0528	. 4031	. 1676	. 2685	. 6325	. 3656	. 4771	. 5625
May.....	4 8816	. 0527	. 4035	. 1673	. 2683	. 6645	. 3659	. 4661	. 5614
June.....	4 8803	. 0526	. 4033	. 1657	. 2683	. 6623	. 3646	. 4661	. 5614
July.....	4 8636	. 0524	. 4025	. 1648	. 2678	. 6523	. 3626	. 4585	. 5604
August.....	4 8535	. 0523	. 4011	. 1661	. 2676	. 6500	. 3625	. 4505	. 5598
September.....	4 8505	. 0523	. 4009	. 1653	. 2676	. 6369	. 3633	. 4578	. 5607
October.....	4 8495	. 0524	. 4009	. 1618	. 2674	. 6404	. 3645	. 4620	. 5634
November.....	4 8492	. 0524	. 4014	. 1612	. 2673	. 6400	. 3646	. 4635	. 5644
December.....	4 8524	. 0524	. 4017	. 1623	. 2676	. 6355	. 3647	. 4589	. 5625

Source: The Federal Reserve Board.



# No. 308.—INTEREST AND ACCEPTANCE RATES: CALL MONEY, TIME LOANS AND ACCEPTANCES, NEW YORK

NOTE.—Rates shown are the range (low and high) for the quarter or month based on weeks ending Saturday in the case of call money and time loans, and weeks ending various days in the case of acceptances, a week falling in 2 months being included in the month having the greater number of days; thus, week ending Feb 2 would be included in January

Year, quarter, and month	Call money	Time loans		Bankers' acceptances (90 days)	Year and month	Call money	Time loans		Bankers' acceptances (90 days)
		60 to 90 days <sup>1</sup>	Six months				60 to 90 days <sup>1</sup>	Six months	
1913					1922				
Jan-Mar	2 - 6	3½ - 6	4 - 6	-----	January	3 - 6	4½ - 5	4½ - 5	3¾ - 4½
Apr-June	1 - 7	3½ - 5	4 - 6	-----	February	4 - 6	4½ - 5	4½ - 5¼	4 - 4½
July-Sept	1½ - 4½	2½ - 5	4½ - 6	-----	March	3 - 5½	4½ - 5	4½ - 5	3¾ - 4½
Oct-Dec	2½ - 10	4½ - 6	4½ - 6	4½ - 5¼	April	3½ - 5	4½ - 4½	4½ - 4½	3¾ - 3½
1914					May	3 - 5	4 - 4½	4½ - 4½	3¾ - 3½
Jan-Mar	1½ - 10	2½ - 5	3 - 5	-----	June	2½ - 5½	3½ - 4½	3½ - 4½	3 - 3½
Apr-June	1½ - 2	2 - 3¼	2½ - 3¼	-----	July	3½ - 5	3½ - 4½	3½ - 4½	3 - 3½
July-Sept	1½ - 10	2½ - 10	3½ - 8	-----	August	3½ - 5	3½ - 4½	4 - 4½	3 - 3½
Oct-Dec	2½ - 8	3½ - 10	3½ - 7	-----	September	3½ - 6	4½ - 4½	4½ - 5	3 - 3½
1915					October	4 - 6	4½ - 5	4½ - 5	3½ - 4½
Jan-Mar	1¾ - 3	2½ - 4½	3 - 4	-----	November	3½ - 6	4½ - 5	5 - 4	4 - 4½
Apr-June	1 - 2½	2½ - 3¼	2½ - 3¼	-----	December	3½ - 6	4½ - 5	4½ - 5	4 - 4½
July-Sept	1½ - 2	2½ - 3¼	3 - 3½	-----	1923				
Oct-Dec	1½ - 2½	2½ - 3	3½ - 3½	-----	January	3½ - 5½	4½ - 5	4½ - 5	-----
1916					February	4 - 6	4½ - 5¼	4½ - 5¼	4 - 4½
Jan-Mar	1¾ - 3	2½ - 3¼	2½ - 3¼	-----	March	4½ - 6	5 - 5½	5 - 5½	4 - 4½
Apr-June	1½ - 2	1¾ - 4	3 - 4	-----	April	4 - 6	5½ - 6¼	5½ - 6¼	4 - 4½
July-Sept	2 - 6	2½ - 4	3½ - 5	-----	May	4 - 6	5 - 6¼	5 - 6¼	4 - 4½
Oct-Dec	1¾ - 15	2½ - 4½	3½ - 4½	-----	June	4 - 6	4½ - 6¼	5 - 6¼	4½ - 4½
1917					July	4 - 6	5 - 6¼	5 - 6¼	4½ - 4½
Jan-Mar	1½ - 3¼	2½ - 4½	2½ - 5	-----	August	4 - 6	5 - 6¼	5 - 6¼	4½ - 4½
Apr-June	2 - 6	2½ - 6	4 - 6	-----	September	3½ - 6	5½ - 6¼	5½ - 6¼	4½ - 4½
July-Sept	1½ - 10	3½ - 6	4½ - 6	-----	October	4 - 6	5 - 6¼	5 - 6¼	4½ - 4½
Oct-Dec	2 - 6	5 - 6	5 - 6	3½ - 3½	November	4½ - 5½	5 - 6¼	5 - 6¼	4½ - 4½
1918					December	4½ - 6	5 - 6¼	5 - 6¼	4½ - 4½
Jan-Mar	2 - 7½	5½ - 6	5½ - 6	3½ - 4½	1924				
Apr-June	2 - 6	5½ - 6	5½ - 6	4½ - 4½	January	3½ - 5¼	4½ - 5	4½ - 5	4 - 4½
July-Sept	3½ - 6	5½ - 6	5½ - 6	4½ - 4½	February	4 - 5½	4½ - 5	4½ - 5	4 - 4½
Oct-Dec	3½ - 6	5 - 6	5½ - 6	4½ - 4½	March	2½ - 5½	4 - 5	4½ - 5	3½ - 4½
1919					April	3½ - 5½	4½ - 4½	4½ - 4½	4 - 4½
Jan-Mar	2½ - 7	5 - 5½	5½ - 5½	4½ - 4½	May	2½ - 4½	3½ - 4½	3½ - 4½	3 - 3½
Apr-June	3½ - 15	5½ - 6	5 - 6	4½ - 4½	June	2 - 3	2½ - 4	3½ - 4½	2 - 2½
July-Sept	3 - 20	5½ - 8	5½ - 8	4½ - 5½	July	2 - 3	2½ - 3	3½ - 3½	2 - 2½
Oct-Dec	2 - 30	5½ - 8	5½ - 8	4½ - 5½	August	2 - 3	2½ - 3	3 - 3½	2 - 2½
1920					September	2 - 3	2½ - 3½	3 - 3½	2½ - 2½
January	6 - 25	7 - 8½	7 - 8½	5 - 5½	October	2 - 3	2½ - 3	3 - 3½	2½ - 2½
February	6 - 25	7½ - 10	7½ - 9	5½ - 5½	November	2 - 4	2½ - 3½	3 - 3½	2½ - 2½
March	3 - 15	8 - 9½	7½ - 9	6 - 6½	December	2½ - 5	3½ - 3½	3½ - 4	2½ - 3½
April	6 - 15	8 - 9	7½ - 9	5½ - 6½	1925				
May	6 - 12	8 - 9	8 - 9	6 - 6½	January	2 - 5	3½ - 3½	3½ - 4	3 - 3½
June	6 - 14	8 - 9	8 - 9	6 - 6½	February	3 - 5	3½ - 4	3½ - 4½	3 - 3½
July	5 - 20	6 - 9	6 - 9	6 - 6½	March	3½ - 5	3½ - 4½	4½ - 4½	3½ - 3½
August	6 - 10	8½ - 9	8½ - 9	6½ - 6½	April	3½ - 5	3½ - 4½	4 - 4½	3½ - 3½
September	6 - 10	7½ - 9	7½ - 9	6½ - 6½	May	3½ - 4	3½ - 4	3½ - 4	3½ - 3½
October	6 - 16	6 - 8½	6 - 8½	6½ - 6½	June	3½ - 4	3½ - 4	3½ - 4	3½ - 3½
November	5 - 10	7½ - 8½	7½ - 8½	6½ - 6½	July	3½ - 6	3½ - 4½	4½ - 4½	3½ - 3½
December	6 - 7	7 - 8	7½ - 8½	3½ - 6½	August	3½ - 4½	4½ - 4½	4½ - 4½	3½ - 3½
1921					September	3½ - 5	4½ - 4½	4½ - 4½	3½ - 3½
January	6 - 7	6 - 7½	6 - 8	5½ - 6½	October	4 - 5½	4½ - 5	4½ - 5	3½ - 3½
February	6 - 9	6 - 7	6 - 7	5½ - 6½	November	4½ - 5	4½ - 5	5	3½ - 3½
March	6 - 7	6½ - 7½	7 - 7½	5½ - 6½	December	4½ - 6	3½ - 5	3½ - 5	3½ - 3½
April	5½ - 7	6½ - 7	6½ - 7	5½ - 6½	1926				
May	6½ - 7½	6½ - 6½	6½ - 7	5½ - 6	January	4 - 6	4½ - 5	4½ - 5	3½ - 3½
June	5 - 8	6 - 7	6 - 7½	5½ - 6	February	4 - 5½	4½ - 5	4½ - 5	3½ - 3½
July	3½ - 6½	5½ - 6	5½ - 6	5 - 5½	March	4 - 5½	4½ - 5	4½ - 5	3½ - 3½
August	4½ - 6	5½ - 6½	5½ - 6½	5 - 5½	April	3 - 5½	4 - 4½	4 - 4½	3½ - 3½
September	4½ - 6	5 - 6	3½ - 6	4½ - 5½	May	3 - 4½	4	4 - 4½	3½ - 3½
October	4 - 6	5½ - 5½	5½ - 5½	4½ - 4½	June	3½ - 5	4 - 4½	4 - 4½	3½ - 3½
November	4 - 6	5 - 5½	5 - 5½	4½ - 4½	July	4 - 5	4½ - 4½	4½ - 4½	3½ - 3½
December	4½ - 6	4½ - 5½	4½ - 5½	4½ - 4½	August	4 - 5	4½ - 5	4½ - 5	3½ - 3½

<sup>1</sup> For the week ended Jan 14, 1918, to the week ended May 12, 1919, time loans were for 30 to 90 days, and from the latter date to the week ended Oct 13, 1919, time on loans not specified

<sup>2</sup> Last half of December.

Source Call money and time loans, 1913, from the financial editors, New York Times; thereafter, The Analyst, acceptance rates, Acceptance Bulletin of the American Acceptance Council.

**No. 309.—INTEREST AND ACCEPTANCE RATES: CALL MONEY, TIME LOANS, AND ACCEPTANCES, NEW YORK, WEEKLY RANGE**

NOTE.—Rates shown are the range, low and high, for weeks ending on date shown in the stub

Year and week	Call money	Time loans		Year and week	Bankers' acceptances (90 days)	Year and week	Call money	Time loans		Year and week	Bankers' acceptances (90 days)
		60 to 90 days	6 months					60 to 90 days	6 months		
1927											
Jan. 8.....	4 1/4-5	4 1/2-4 3/4	4 1/2-4 3/4	Jan. 4.....	3 1/2-3 3/4	Jan. 7.....	4 - 5 1/2	4 1/2-4 1/4	4 1/2-4 1/4	Jan. 3.....	3 1/4-3 3/8
Jan. 15.....	4 - 4 1/2	4 1/2-4 3/4	4 1/2-4 3/4	Jan. 11.....	3 1/2-3 3/4	Jan. 14.....	4 - 4 1/2	4 1/2-4 3/4	4 1/2-4 3/4	Jan. 9.....	3 1/4-3 3/8
Jan. 22.....	4 - 4 1/2	4 1/2-4 3/4	4 1/2-4 3/4	Jan. 18.....	3 1/2-3 3/4	Jan. 21.....	3 1/2-4 1/2	4 1/2-4 3/4	4 1/2-4 3/4	Jan. 16.....	3 1/2-3 3/8
Jan. 29.....	4	4 1/2-4 3/4	4 1/2-4 3/4	Jan. 25.....	3 1/2-3 3/4	Jan. 28.....	3 1/2-4 1/2	4 1/2-4 3/4	4 1/2-4 3/4	Jan. 23.....	3 1/2-3 3/8
Feb. 5.....	4	4 1/2-4 3/4	4 1/2-4 3/4	Feb. 1.....	3 1/2-3 3/4	Feb. 4.....	4 - 5	4 1/2-4 1/4	4 1/2-4 1/4	Jan. 30.....	3 1/2-3 3/8
Feb. 12.....	4	4 1/2-4 3/4	4 1/2-4 3/4	Feb. 8.....	3 1/2-3 3/4	Feb. 11.....	4 - 4 1/2	4 1/2-4 3/4	4 1/2-4 3/4	Feb. 6.....	3 1/2-3 3/8
Feb. 19.....	3 1/2-4 1/2	4 1/2-4 3/4	4 1/2-4 3/4	Feb. 15.....	3 1/2-3 3/4	Feb. 18.....	4 1/2-4 1/2	4 1/2-4 3/4	4 1/2-4 3/4	Feb. 14.....	3 1/2-3 3/8
Feb. 26.....	3 1/2-5	4 1/2-4 3/4	4 1/2-4 3/4	Feb. 22.....	3 1/2-3 3/4	Feb. 25.....	4 - 4 1/2	4 1/2-4 3/4	4 1/2-4 3/4	Feb. 20.....	3 1/2-3 3/8
Mar. 5.....	4 - 4 1/2	4 1/2-4 3/4	4 1/2-4 3/4	Feb. 28.....	3 1/2-3 3/4	Mar. 3.....	4 1/2-4 1/2	4 1/2-4 3/4	4 1/2-4 3/4	Feb. 27.....	3 1/2-3 3/8
Mar. 12.....	4	4 1/2-4 3/4	4 1/2-4 3/4	Mar. 7.....	3 1/2-3 3/4	Mar. 10.....	4 1/2-4 1/2	4 1/2-4 3/4	4 1/2-4 3/4	Mar. 5.....	3 1/2-3 3/8
Mar. 19.....	3 1/2-4	4 1/2-4 3/4	4 1/2-4 3/4	Mar. 14.....	3 1/2-3 3/4	Mar. 17.....	4	4 1/2-4 3/4	4 1/2-4 3/4	Mar. 12.....	3 1/2-3 3/8
Mar. 26.....	4 - 4 1/2	4 1/2-4 3/4	4 1/2-4 3/4	Mar. 21.....	3 1/2-3 3/4	Mar. 24.....	4 1/2-4 1/2	4 1/2-4 3/4	4 1/2-4 3/4	Mar. 19.....	3 1/2-3 3/8
Apr. 2.....	4 - 4 1/2	4 1/2-4 3/4	4 1/2-4 3/4	Mar. 28.....	3 1/2-3 3/4	Mar. 31.....	4 1/2-5	4 1/2-4 3/4	4 1/2-4 3/4	Mar. 26.....	3 1/2-3 3/8
Apr. 9.....	4 - 4 1/2	4 1/2-4 3/4	4 1/2-4 3/4	Apr. 4.....	3 1/2-3 3/4	Apr. 7.....	5 - 5 1/2	4 1/2-4 3/4	4 1/2-4 3/4	Apr. 2.....	3 1/2-3 3/8
Apr. 16.....	4 1/2-4 1/2	4 1/2-4 3/4	4 1/2-4 3/4	Apr. 11.....	3 1/2-3 3/4	Apr. 14.....	4 1/2-6	4 1/2-5	4 1/2-5	Apr. 9.....	3 1/2-3 3/8
Apr. 23.....	4 - 4 1/2	4 1/2-4 3/4	4 1/2-4 3/4	Apr. 18.....	3 1/2-3 3/4	Apr. 21.....	4 1/2-5	4 1/2-5	4 1/2-5	Apr. 16.....	3 1/2-4
Apr. 30.....	4 - 5	4 1/2-4 3/4	4 1/2-4 3/4	Apr. 25.....	3 1/2-3 3/4	Apr. 28.....	4 1/2-5	5	5	Apr. 23.....	3 1/2-4
May 7.....	4 - 4 1/2	4 1/2-4 3/4	4 1/2-4 3/4	May 2.....	3 1/2-3 3/4	May 5.....	4 1/2-6	4 1/2-5	4 1/2-5	Apr. 30.....	3 1/2-4
May 14.....	4 - 4 1/2	4 1/2-4 3/4	4 1/2-4 3/4	May 9.....	3 1/2-3 3/4	May 12.....	5 1/2-6	4 1/2-5	4 1/2-5	May 7.....	3 1/2-4
May 21.....	4 - 4 1/2	4 1/2-4 3/4	4 1/2-4 3/4	May 16.....	3 1/2-3 3/4	May 19.....	5 1/2-6	5 - 5 1/2	5 - 5 1/2	May 14.....	3 1/2-4
May 28.....	4 - 4 1/2	4 1/2-4 3/4	4 1/2-4 3/4	May 23.....	3 1/2-3 3/4	May 26.....	5 1/2-6	5 1/2	5 1/2	May 21.....	4 - 4 1/2
June 4.....	4 1/2	4 1/2-4 3/4	4 1/2-4 3/4	May 30.....	3 1/2-3 3/4	June 2.....	5 1/2-6 1/2	5 1/2-5 1/2	5 1/2-5 1/2	May 28.....	4 - 4 1/2
June 11.....	4 - 4 1/2	4 1/2-4 3/4	4 1/2-4 3/4	June 6.....	3 1/2-3 3/4	June 9.....	5 1/2-7	5 1/2-6	5 1/2-6	June 4.....	4 - 4 1/2
June 18.....	4 - 4 1/2	4 1/2-4 3/4	4 1/2-4 3/4	June 13.....	3 1/2-3 3/4	June 16.....	5 1/2-6	5 1/2-5 1/2	5 1/2-5 1/2	June 11.....	4 - 4 1/2
June 25.....	4	4 1/2-4 3/4	4 1/2-4 3/4	June 20.....	3 1/2-3 3/4	June 23.....	5 1/2-6 1/2	5 1/2-5 1/2	5 1/2-5 1/2	June 18.....	4 - 4 1/2
July 2.....	4 - 5	4 1/2-4 3/4	4 1/2-4 3/4	June 27.....	3 1/2-3 3/4	June 30.....	5 1/2-6	5 1/2-6	5 1/2-6	June 25.....	4 1/2-4 1/4
July 9.....	4 - 4 1/2	4 1/2-4 3/4	4 1/2-4 3/4	July 4.....	3 1/2-3 3/4	July 7.....	5 - 10	5 1/2-6	5 1/2-6	July 2.....	4 1/2-4 1/4
July 16.....	4	4 1/2-4 3/4	4 1/2-4 3/4	July 11.....	3 1/2-3 3/4	July 14.....	5 1/2-8	5 1/2-6	5 1/2-6	July 9.....	4 1/2-4 1/4
July 23.....	3 1/2-4	4 1/2-4 3/4	4 1/2-4 3/4	July 18.....	3 1/2-3 3/4	July 21.....	5 - 6 1/2	6	6	July 16.....	4 1/2-4 1/4
July 30.....	3 1/2-4	4 1/2-4 3/4	4 1/2-4 3/4	July 25.....	3 1/2-3 3/4	July 28.....	5 1/2	6	6	July 23.....	4 1/2-4 1/4
Aug 6.....	3 1/2-4	4 - 4 1/2	4 1/2-4 3/4	Aug 1.....	3 1/2-3 1/4	Aug 4.....	5 1/2-8	6	6	July 30.....	4 1/2-4 1/4
Aug 13.....	3 1/2-4	4 - 4 1/2	4 1/2-4 3/4	Aug 8.....	3 1/2-3 1/4	Aug 11.....	6 - 8	6 - 6 1/2	6 - 6 1/2	Aug 6.....	4 1/2-4 1/4
Aug 20.....	3 1/2-3 3/4	3 1/2-4 1/4	4 1/2-4 3/4	Aug 15.....	3 1/2-3 1/4	Aug 18.....	4 1/2-7	6 1/2	6 1/2	Aug 13.....	4 1/2-4 1/4
Aug 27.....	3 1/2-3 3/4	3 1/2-4 1/4	4 1/2-4 3/4	Aug 22.....	3 1/2-3 1/4	Aug 25.....	6 - 7 1/2	6 1/2-6 1/2	6 1/2-6 1/2	Aug 20.....	4 1/2-4 1/4
Sep 3.....	3 1/2-3 3/4	4 - 4 1/2	4 1/2-4 3/4	Aug 29.....	3 1/2-3 1/4	Sep 1.....	7 - 8	6 1/2	6 1/2	Aug 27.....	4 1/2-4 1/4
Sep 10.....	3 1/2-4	4 - 4 1/2	4 1/2-4 3/4	Sep 5.....	3 1/2-3 1/4	Sep 8.....	7 1/2-8	6 1/2	6 1/2	Sep 3.....	4 1/2-4 1/4
Sep 17.....	3 1/2-4 1/2	4 - 4 1/2	4 1/2-4 3/4	Sep 12.....	3 1/2-3 1/4	Sep 15.....	7 - 8	6 1/2-7	6 1/2-7	Sep 10.....	4 1/2-4 1/4
Sep 24.....	3 1/2-4	4 - 4 1/2	4 1/2-4 3/4	Sep 19.....	3 1/2-3 1/4	Sep 22.....	6 1/2-9	7 - 7 1/2	6 1/2-7 1/2	Sep 17.....	4 1/2-4 1/4
Oct 1.....	3 1/2-4	4 - 4 1/2	4 1/2-4 3/4	Sep 26.....	3 1/2-3 1/4	Sep 29.....	6 - 8	7 1/2-7 1/2	7 1/2-7 1/2	Sep 24.....	4 1/2-4 1/4
Oct 8.....	4 - 4 1/2	4 - 4 1/2	4 1/2-4 3/4	Oct 3.....	3 1/2-3 1/4	Oct 6.....	6 - 10	7 1/2-7 1/2	7 1/2-7 1/2	Oct 1.....	4 1/2-4 1/4
Oct 15.....	4 - 4 1/2	4 - 4 1/2	4 1/2-4 3/4	Oct 10.....	3 1/2-3 3/8	Oct 13.....	6 - 6 1/2	7 - 7 1/2	7 - 7 1/2	Oct 8.....	4 1/2-4 1/4
Oct 22.....	3 1/2-4 1/4	4 - 4 1/2	4 1/2-4 3/4	Oct 17.....	3 1/2-3 3/8	Oct 20.....	6 1/2-8	7 - 7 1/2	7 - 7 1/2	Oct 15.....	4 1/2-4 1/4
Oct 29.....	3 1/2-4	4 - 4 1/2	4 1/2-4 3/4	Oct 24.....	3 1/2-3 3/8	Oct 27.....	6 - 8	6 1/2-7	6 1/2-7	Oct 22.....	4 1/2-4 1/4
Nov 5.....	3 1/2-4	4 - 4 1/2	4 1/2-4 3/4	Oct 31.....	3 1/2-3 3/8	Nov 3.....	7 - 8	6 1/2-7	6 1/2-7	Oct 29.....	4 1/2-4 1/4
Nov 12.....	3 1/2-4	4 - 4 1/2	4 1/2-4 3/4	Nov 7.....	3 1/2-3 3/8	Nov 10.....	6 - 7	6 1/2-7	6 1/2-7	Nov 5.....	4 1/2-4 1/4
Nov 19.....	3 1/2-4	4 - 4 1/2	4 1/2-4 3/4	Nov 14.....	3 1/2-3 3/8	Nov 17.....	6 - 6 1/2	6 1/2-7	6 1/2-7	Nov 12.....	4 1/2-4 1/4
Nov 26.....	3 1/2-4	4 - 4 1/2	4 1/2-4 3/4	Nov 21.....	3 1/2-3 3/8	Nov 24.....	6 - 6 1/2	6 1/2-7	6 1/2-7	Nov 19.....	4 1/2-4 1/4
Dec 3.....	3 1/2-4 1/2	4 - 4 1/2	4 - 4 1/2	Nov 28.....	3 1/2-3 3/8	Dec 1.....	6 1/2-10	6 1/2-7	6 1/2-7	Nov 26.....	4 1/2-4 1/4
Dec 10.....	4 - 4 1/2	4 1/2-4 3/4	4 1/2-4 3/4	Dec 5.....	3 1/2-3 3/8	Dec 8.....	8 - 12	7 - 7 1/2	7 - 7 1/2	Dec 3.....	4 1/2-4 1/4
Dec 17.....	4	4 1/2-4 3/4	4 1/2-4 3/4	Dec 12.....	3 1/2-3 3/8	Dec 15.....	6 - 9	7 1/2-7 1/2	7 1/2-7 1/2	Dec 10.....	4 1/2-4 1/4
Dec 24.....	4 1/2-5	4 1/2-4 3/4	4 1/2-4 3/4	Dec 19.....	3 1/2-3 3/8	Dec 22.....	6 - 9	7 1/2-7 1/2	7 1/2-7 1/2	Dec 17.....	4 1/2-4 1/4
Dec 31.....	5 - 5 1/2	4 1/2-4 3/4	4 1/2-4 3/4	Dec 30.....	3 1/2-3 3/8	Dec 29.....	9 - 12	7 1/2-7 1/2	7 1/2-7 1/2	Dec 24.....	4 1/2-4 1/4
										Dec 31.....	4 1/2-4 1/4

Sources Call and time rates from The Analyst, acceptance rates from Acceptance Bulletin of the American Acceptance Council.

# No. 310.—FIRE AND MARINE INSURANCE BUSINESS: CONTINENTAL UNITED STATES AND OUTLYING TERRITORIES AND POSSESSIONS

NOTE.—Data cover transactions of both United States and foreign companies

[All figures except number of companies in thousands of dollars]

Calendar year	Stock and mutual companies								
	Number of companies	Capital	Total assets <sup>1</sup>	Net surplus	Net premiums	Total income	Losses	Dividends	Ex-penses
1890.....	580	86,732	322,678	108,734	143,346	157,858	75,335	12,946	49,819
1895.....	555	70,225	347,554	118,228	161,447	175,750	89,213	14,666	54,203
1900.....	493	73,151	413,027	162,658	182,131	198,313	108,307	16,029	65,861
1905.....	560	76,128	544,182	211,545	270,387	292,995	124,925	22,877	93,310
1909.....	598	87,538	602,965	246,339	329,447	362,556	154,431	30,192	116,087
1910.....	593	94,734	572,899	206,212	263,303	291,534	123,692	34,857	94,389
1911.....	593	97,703	745,044	276,956	354,506	388,462	183,477	32,409	128,332
1912.....	593	96,944	774,985	286,969	367,470	406,326	188,082	31,640	135,517
1913.....	605	105,196	792,313	285,504	381,037	416,740	202,695	33,460	141,821
1914.....	596	105,670	815,747	284,523	396,550	430,873	224,640	30,957	143,339
1915.....	613	107,675	873,945	321,014	419,361	459,361	221,701	26,509	157,730
1916.....	608	118,094	965,859	345,561	493,936	535,753	244,813	39,742	172,207
1917.....	636	126,880	1,077,952	399,574	614,647	681,922	293,842	42,477	203,818
1918.....	630	131,221	1,189,795	373,216	716,980	772,740	335,921	43,506	249,261
1919.....	781	163,103	1,391,096	453,920	810,881	884,166	335,570	52,474	295,405
1920.....	789	176,906	1,569,141	464,565	995,295	1,073,625	451,470	63,515	371,479
1921.....	802	184,584	1,592,351	501,337	832,906	915,921	514,755	64,859	343,209
1922.....	754	206,367	1,627,345	550,057	851,257	939,568	477,118	73,924	337,590
1923.....	763	211,165	1,732,388	561,688	878,907	1,002,175	504,795	78,487	380,106
1924.....	801	232,408	1,913,477	629,252	970,806	1,070,748	524,302	76,652	390,128
1925.....	854	269,283	2,092,499	700,462	1,050,676	1,188,087	559,981	81,430	419,427
1926.....	860	278,498	2,248,197	733,959	1,110,895	1,228,399	581,234	92,897	448,935
1927.....	870	315,689	2,503,063	908,495	1,108,434	1,259,386	544,254	99,230	448,983
	Lloyd's and interinsurance companies					Total			
	Number of associations	Net premiums	Total income	Losses	Total disbursements	Net premiums	Total income	Losses	Total disbursements
1905.....	37	3,029	3,338	1,371	2,508	273,417	296,333	126,296	243,620
1909.....	38	4,415	4,719	1,939	3,843	333,862	367,275	156,370	304,552
1910.....	31	3,831	4,111	1,644	3,744	267,134	295,645	125,336	256,681
1911.....	28	4,118	4,505	1,441	3,465	358,624	392,967	184,918	347,683
1912.....	26	4,157	4,424	1,992	4,101	371,627	410,760	190,073	359,339
1913.....	40	4,331	4,628	2,102	4,122	385,368	421,599	204,797	382,098
1914.....	37	9,425	9,860	3,575	7,706	405,975	440,733	228,215	406,641
1915.....	45	12,003	12,634	4,470	9,609	431,365	471,996	226,171	415,549
1916.....	54	13,076	13,745	5,653	11,247	507,012	549,499	250,466	468,008
1917.....	56	13,642	14,003	5,868	11,326	628,289	695,924	299,710	551,464
1918.....	95	20,874	21,636	10,470	18,174	737,854	794,376	346,391	646,803
1919.....	105	23,067	24,146	8,739	18,909	833,948	908,312	344,308	702,357
1920.....	137	24,946	26,164	10,403	20,481	1,020,242	1,102,789	461,873	907,245
1921.....	121	28,864	32,777	13,921	29,473	861,770	948,609	528,675	951,997
1922.....	125	30,056	32,537	13,282	29,070	881,313	972,106	490,398	917,700
1923.....	116	35,715	37,831	14,809	33,210	914,622	1,040,007	519,603	996,598
1924.....	140	46,706	50,768	21,858	44,037	1,017,612	1,121,517	546,159	1,035,119
1925.....	134	43,370	45,120	21,110	42,474	1,094,046	1,233,207	581,041	1,103,262
1926.....	121	45,366	49,085	22,274	43,141	1,156,261	1,227,485	603,507	1,165,206
1927.....	111	46,489	50,085	22,385	44,233	1,154,922	1,309,471	566,639	1,136,700

<sup>1</sup> Exclusive of premium notes.

<sup>2</sup> Figures for 1911 and 1912 cover the business of 24 associations; 1913, 30; 1916, 47; 1919, 95; 1920, 101; 1921, 108, 1922, 105, 1923, 108, 1924, 133; 1925, 110, 1926, 115; and 1927, 106.

<sup>3</sup> Premiums of 84 associations.

<sup>4</sup> Income of 88 associations.

<sup>5</sup> Losses paid and total disbursements of 89 associations.

Source: Insurance Yearbook of the Spectator Co., New York City.

**No. 311.—FIRE INSURANCE: OUTSTANDING RISKS, CONTINENTAL UNITED STATES AND OUTLYING TERRITORIES AND POSSESSIONS, DECEMBER 31**

NOTE.—Covers transactions of members of the National Board of Fire Underwriters, both United States and foreign companies. Fire and lightning risks only beginning with 1918; in previous years marine risks are also included

[Amount covered and premiums charged in millions and tenths of millions of dollars]

Year or yearly average	Number of companies	Amount covered	Premiums charged <sup>1</sup>	Rate on \$100	Year	Number of companies	Amount covered	Premiums charged <sup>1</sup>	Rate on \$100
1877-1880.....	171	6,393 8	61 5	\$0 9623	1919.....	159	75,163 8	769 5	\$1 0118
1881-1890.....	152	10,992 8	113 7	1.0347	1920.....	169	85,970 2	846 3	.9844
1891-1900.....	140	18,368 0	190 5	1.0373	1921.....	175	93,715 3	916 6	.9780
1901-1910.....	156	31,923 7	354 9	1.1116	1922.....	174	96,283 3	936 4	.9728
1911-1920.....	181	62,276 8	629 0	1.0101	1923.....	184	105,927.5	1,017 0	.9601
1914.....	191	56,012 9	570 7	1.0189	1924.....	197	115,683 4	1,092 0	.9410
1915.....	193	58,867 1	588 7	1.0000	1925.....	210	128,255 2	1,189 9	.9277
1916.....	199	63,355 3	628 2	.9915	1926.....	210	137,739 9	1,257 9	.9132
1917.....	197	72,331 7	698 3	.9654	1927.....	213	144,777 2	1,305 3	.9014
1918.....	154	63,083 1	638 1	1.0115					

<sup>1</sup> Gross less reinsurance

Source Insurance Yearbook of the Spectator Co., New York City.

**No. 312.—FIRE AND LIGHTNING INSURANCE: BUSINESS TRANSACTED BY MEMBERS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS, CONTINENTAL UNITED STATES AND OUTLYING TERRITORIES AND POSSESSIONS**

[All money figures, except average annual rate of premium, in millions and tenths of millions of dollars]

	1920	1922	1923	1924	1925	1926	1927
Number of companies, total.....	169	174	184	197	210	210	213
United States companies.....	124	129	137	152	165	168	173
Foreign companies.....	45	45	47	45	45	42	40
Gross insurance written.....	100,194 7	95,282 5	118,358 5	118,398 0	140,496 9	142,968 8	139,958.8
United States companies.....	71,409 1	71,216 7	89,798 9	92,323 8	113,406 1	114,053 3	114,026 0
Foreign companies.....	28,785 6	24,065 8	28,559 6	26,074.3	27,090 8	28,915 5	25,932 9
Gross premiums charged.....	963 6	898 9	1,064 2	1,056 3	1,226 0	1,233 1	1,205 6
Net premiums written.....	533 9	505 4	598 6	595.9	644 3	679 0	639 8
Net premiums earned.....	450 9	492 0	535 4	571 3	599 0	634 5	627 6
Net losses paid.....	226 0	282 8	315 1	325 8	351 1	351 6	298 7
Net losses incurred.....	246 1	286.7	308 5	343 7	354 1	352.9	295.7
Net expenses.....	219 5	214 2	252 0	263 2	281 2	301 5	288.3
Agents' compensation.....	121 0	120 1	145 8	149 0	161 5	172 1	163 3
Taxes.....	27.6	17 3	18.4	20.3	20 1	21 2	20 8
Average annual rate of premium per \$100 insurance.....	\$0 9617	\$0.9434	\$0 8991	\$0.8922	\$0 8726	\$0.8625	\$0.8600
Per cent of—							
Net losses incurred to net premiums earned.....	54 6	58.3	57.6	60 2	59 1	55.6	47 1
Net losses incurred to net premiums written.....	46 1	56.7	51.5	57.7	55 0	52.0	46 2
Net expenses to net premiums earned.....	48.7	43.5	47.1	46.1	46.9	47.5	45 9
Net expenses to net premiums written.....	41 1	42 4	42 1	44 2	43 6	44 4	45 1
Agents' compensation to net premiums written.....	22 7	23 8	24 4	25.0	25.1	25.3	25 5
Taxes to net premiums written.....	5 2	3 4	3 1	3.4	3 1	3.1	3 2

Source, Insurance Yearbook of the Spectator Co., New York, N. Y.

## No. 313.—FIRES IN CITIES OF 100,000 OR MORE INHABITANTS: 1927

NOTE.—Losses are as reported by the chiefs of fire departments, estimated in many cases. Per capita figures are based on total losses where available, otherwise on insurance loss. Population estimates used in computing per capita figures are from the Census Bureau for some cities, from municipal authorities for others.

[Amounts, except per capita, in thousands of dollars]

City and State	Number of fires	Total loss (insured and uninsured)	Insurance loss	Loss per capita	City and State	Number of fires	Total loss (insured and uninsured)	Insurance loss	Loss per capita
Alabama Birmingham	2,058	676	611	\$3 25	New Jersey—Con Jersey City	1,438	1,348	1,306	\$4.15
California:					Newark	2,650	1,326	1,141	2.84
Long Beach	575	174	90	1.16	Paterson	710	644	615	4.29
Los Angeles	8,872	2,009	1,60	2.17	Trenton	501	219	212	1.59
Oakland	2,391	739	699	2.17	New York:				
Sacramento	488	712	701	6 78	Albany	1,165	469	3 78	
San Diego	1,013	116	91	.77	Buffalo	2,040	1,970	3 51	
San Francisco	5,747	19,685	19,685	3 30	New York City	24,341	19,685	3 30	
Colorado: Denver	2,003	505	447	1.57	Manhattan				
Connecticut:					Bronx, and				
Bridgeport	878	197	177	1.36	Richmond	13,630	12,360	4.28	
Hartford	876	262	250	1.54	Brooklyn and				
New Haven	1,301	677	666	3 66	Queens	10,711	7,326	2.38	
Waterbury	681	377	339	3 25	Rochester	1,820	453	1 39	
Delaware: Wil-					Syracuse	943	290	280	1 32
mington	620	230	1.83	Utica	225	203	202	1 86	
District of Colum-					Yonkers	856	204	191	1.70
bia: Washington	2,702	952	422	1.76	Ohio:				
Florida:					Akron	1,123	274	261	1.19
Jacksonville	1,293	472	377	2 55	Canton	406	51	51	.44
Miami	1,216	437	348	3 31	Cincinnati	1,881	833	764	1 88
Tampa	954	369	316	2.22	Cleveland	5,163	2,332	2,220	2 37
Georgia:					Columbus	1,666	557	514	1 79
Atlanta	2,219	996	862	3 99	Dayton	1,133	230	220	1 25
Savannah	622	160	156	1 45	Toledo	1,809	824	704	2 70
Illinois Chicago	20,056	13,617	11,933	4 39	Youngstown	864	384	332	2 45
Indiana:					Oklahoma:				
Fort Wayne	990	464	459	3 93	Oklahoma City	1,405	149	143	1 11
Gary	649	203	183	1 84	Tulsa	1,175	74	74	.49
Indianapolis	3,280	801	698	2 01	Oregon: Portland	1,982	731	711	2.09
South Bend	931	211	207	2 11	Pennsylvania:				
Iowa Des Moines	1,393	269	250	1.79	Allentown	206	402	369	4 02
Kansas:					Erie	655	122	122	.90
Kansas City	1,092	811	775	6 45	Philadelphia	6,389	4,230	3,570	2 08
Wichita	712	126	109	1 22	Pittsburgh	2,998	2,276	2,078	3 42
Kentucky: Louis-					Reading	237	139	139	1 26
ville	2,153	733	609	2 09	Scranton	691	791	776	5 27
Louisiana: New					Rhode Island:				
Orleans	1,650	624	1 46	Providence	2,085	745	664	2.78	
Mayland: Balti-					Tennessee:				
more	4,199	1,733	1,697	2.14	Chattanooga	875	199	169	1 42
Massachusetts:					Knoxville	820	261	261	2 61
Boston	3,375	3,927	3,724	4 92	Memphis	2,189	577	480	2 88
Cambridge	1,024	456	433	3 79	Nashville	1,670	860	766	5 97
Fall River	865	383	203	2 83	Texas:				
Lowell	1,149	249	242	2 20	Dallas	887	1,367	1,276	5 06
Lynn	1,641	687	668	6 60	El Paso	498	79	57	79
New Bedford	680	220	1.82	Fort Worth	1,646	958	932	4 91	
Somerville	697	206	1 96	Houston	2,257	935	824	3 28	
Springfield	1,165	358	346	2 43	San Antonio	1,123	162	105	.65
Worcester	1,928	698	3 49	Utah: Salt Lake					
Michigan:					City	1,124	365	295	2 43
Detroit	8,783	5,713	3 27	Virginia:					
Flint	1,262	177	151	1 18	Norfolk	1,215	300	339	1 93
Grand Rapids	1,472	291	271	1.73	Richmond	1,349	408	369	2.04
Minnesota:					Washington:				
Duluth	509	459	401	3 82	Seattle	723	602	542	1 36
Minneapolis	3,739	1,534	1,491	3 09	Spokane	1,072	319	315	2 53
St Paul	2,005	1,477	1,454	4 72	Tacoma	1,042	370	345	2 85
Missouri:					Wisconsin: Mil-				
Kansas City	3,244	1,489	1,411	3 17	waukee	3,012	1,135	1,110	1 98
St. Louis	5,843	2,584	2,496	3 23	Hawai Territory				
Nebraska: Omaha	2,237	652	613	2 97	Honolulu	282	75	51	.60
New Jersey:					Philippine Islands				
Camden	619	103	.78	Manila	145	759	759	2 67	
Elizabeth	559	202	1.68						

Source. Report of Committee on Statistics and Origin of Fires; National Board of Fire Underwriters.

## No. 314.—FIRE LOSSES: TOTAL AND PER CAPITA, CONTINENTAL UNITED STATES

NOTE.—Amounts, except per capita, in thousands of dollars. Prior to 1916, figures are as compiled by the New York Journal of Commerce and include losses of \$10,000 or over in the principal cities of the United States, adding 15 per cent for small and unreported losses. These figures are not comparable with those shown for later years (the 1916 Journal of Commerce figure being \$214,531,000 as against \$258,378,000) which cover all fires reported to the Actuarial Bureau Committee, adding 25 per cent for unreported and uninsured losses.

Year	Loss	Year	Loss	Year	Loss	Year	Loss
1877-----	68,266	1890-----	108,994	1903-----	145,302	1916-----	258,378
1878-----	64,316	1891-----	143,765	1904-----	229,198	1917-----	289,535
1879-----	77,704	1892-----	151,516	1905-----	165,222	1918-----	353,879
1880-----	74,643	1893-----	167,544	1906-----	518,612	1919-----	320,540
1881-----	81,281	1894-----	140,006	1907-----	215,085	1920-----	447,887
1882-----	84,505	1895-----	142,110	1908-----	217,886	1921-----	495,406
1883-----	100,149	1896-----	118,737	1909-----	188,705	1922-----	506,541
1884-----	110,009	1897-----	116,355	1910-----	214,003	1923-----	535,373
1885-----	102,819	1898-----	130,594	1911-----	217,005	1924-----	549,062
1886-----	104,925	1899-----	153,598	1912-----	206,439	1925-----	559,418
1887-----	120,283	1900-----	160,930	1913-----	203,764	1926-----	560,549
1888-----	110,886	1901-----	165,818	1914-----	221,439	1927-----	478,246
1889-----	123,017	1902-----	161,078	1915-----	172,033	1928-----	472,225

Year	Cities reporting actual loss				Total United States		
	Number of cities	Population (thousands)	Actual reported loss, total	Loss per capita	Population (thousands)	Estimated loss	Loss per capita
1919-----	326	39,899	103,028	\$2.58	105,003	320,540	\$3.05
1920-----	370	39,637	151,121	3.81	106,422	447,887	4.21
1921-----	370	40,325	141,406	3.51	168,445	495,406	4.57
1922-----	366	40,758	147,096	3.61	109,893	506,541	4.62
1923-----	372	42,947	147,102	3.42	111,693	535,373	4.79
1924-----	366	43,376	146,223	3.37	113,727	549,062	4.83
1925-----	370	45,297	160,012	3.53	115,378	559,418	4.85
1926-----	377	53,244	178,179	3.35	117,136	560,549	4.79
1927-----	406	51,292	144,619	2.82	118,628	478,246	4.03
1928-----	445	51,836	140,038	2.70	120,013	472,225	3.93

Source Committee on Statistics, National Board of Fire Underwriters

## No. 315.—LIFE INSURANCE: OPERATIONS OF ALL COMPANIES OF THE UNITED STATES, FROM ORGANIZATION TO JANUARY 1, 1928

NOTE.—Data include business transacted in United States territories and possessions

[All figures, except number of policies, in thousands of dollars]

	Total	Ordinary companies	Industrial companies
Total insurance issued since organization			
Number of policies (thousands)-----	296,512	<sup>1</sup> 60,169	<sup>2</sup> 236,343
Amount-----	176,929,240	<sup>1</sup> 136,044,008	<sup>2</sup> 40,885,233
Insurance in force Jan. 1, 1928			
Number of policies (thousands)-----	100,392	<sup>1</sup> 27,146	<sup>2</sup> 82,246
Amount-----	87,022,103	<sup>1</sup> 71,473,615	<sup>2</sup> 15,548,488
Receipts since organization, total	40,260,273	28,597,171	11,663,102
Premium and annuity-----	31,411,088	21,605,856	9,805,233
Interest, rents, etc-----	8,849,184	6,991,315	1,857,869
Payments to policyholders since organization, total	18,416,805	14,396,315	4,020,490
Death claims-----	8,426,872	6,127,860	2,298,513
Endowments and annuities <sup>3</sup> -----	2,427,261	2,009,004	418,257
Purchased policies, surrender values-----	3,371,828	2,808,831	562,996
Dividends to policyholders-----	4,191,344	3,450,620	740,724
Admitted assets, Jan. 1, 1928-----	14,391,851	9,509,688	4,882,163
Capital, apportioned funds and surplus, Jan. 1, 1928-----	1,525,635	1,095,287	430,348

<sup>1</sup> Includes group business and ordinary and group business of industrial companies.

<sup>2</sup> Industrial business only

<sup>3</sup> Includes disability and double indemnity.

Source The Insurance Yearbook of the Spectator Co., New York, N. Y.

# No. 316.—LIFE INSURANCE: SUMMARY OF FINANCIAL CONDITION AND POLICY ACCOUNT OF ALL COMPANIES OF THE UNITED STATES

NOTE.—Data include business transacted in United States territories and possessions

[All figures, except number of policies, in millions of dollars]

Year	Assets (admitted) Dec 31	Liabilities, <sup>1</sup> Dec 31	Total income	Payments to policyholders	Insurance written and paid for during year		Policies in force Dec. 31				
					Ordinary <sup>2</sup>	Industrial	Number (thousands)		Amount		
							Ordinary <sup>2</sup>	Industrial	Total	Ordinary <sup>2</sup>	Industrial
1850							29		69	69	
1860							60		180	180	
1870							839		2,263	2,263	
1880	453		81	56			686	237	1,602	1,582	21
1890	771	679	197	90	742	242	1,320	3,883	4,050	3,621	429
1900	1,742	1,493	401	169	1,280	566	3,176	11,219	8,561	7,093	1,468
1901	1,911	1,640	458	192	1,421	599	3,694	12,337	9,594	7,953	1,641
1902	2,092	1,798	505	200	1,564	612	4,160	13,448	10,505	8,699	1,807
1903	2,265	1,979	554	226	1,727	597	4,094	14,607	11,547	9,569	1,978
1904	2,499	2,168	599	247	1,796	613	5,508	15,674	12,548	10,412	2,136
1905	2,706	2,373	642	265	1,726	661	5,621	16,873	13,364	11,054	2,310
1906	2,924	2,557	667	287	1,451	631	5,793	17,841	13,707	11,253	2,454
1907	3,053	2,736	679	310	1,345	576	5,943	18,844	14,063	11,486	2,577
1908	3,380	2,939	704	336	1,469	594	6,165	19,688	14,519	11,850	2,669
1909	3,644	3,170	748	361	1,656	793	6,535	21,652	15,420	12,452	2,968
1910	3,876	3,386	781	387	1,822	735	6,964	23,034	16,404	13,227	3,177
1911	4,164	3,646	836	414	2,097	773	7,069	24,713	18,003	14,578	3,424
1912	4,409	3,880	893	449	2,240	842	8,159	26,696	19,265	15,556	3,709
1913	4,659	4,136	946	470	2,550	850	8,775	29,432	20,564	16,537	3,977
1914	4,935	4,365	985	509	2,457	858	9,045	31,159	21,589	17,426	4,164
1915	5,190	4,938	1,043	545	2,621	974	9,890	33,142	22,784	18,349	4,435
1916	5,537	5,253	1,118	566	3,213	999	10,698	35,675	24,679	19,868	4,811
1917	5,941	5,634	1,249	590	3,840	1,051	11,582	38,764	27,189	21,966	5,223
1918	6,475	6,202	1,325	710	3,988	1,143	12,768	41,852	29,870	24,167	5,703
1919	6,759	6,432	1,560	739	7,010	1,305	15,716	51,295	35,880	29,273	6,607
1920	7,320	6,989	1,764	745	8,490	1,615	16,695	49,805	42,281	35,092	7,190
1921	7,936	7,548	1,951	838	6,787	1,943	17,685	54,907	45,983	37,977	8,006
1922	8,652	8,124	2,149	973	7,506	2,268	18,814	58,283	50,291	41,404	8,887
1923	9,455	8,902	2,427	1,088	9,455	2,615	20,534	63,461	56,804	46,096	10,107
1924	10,394	9,799	2,703	1,174	10,152	3,043	22,092	68,248	63,780	52,436	11,344
1925	11,538	10,867	3,018	1,243	11,817	3,656	23,894	73,736	71,690	58,866	12,824
1926	12,940	12,177	3,330	1,373	12,413	4,048	25,501	77,965	79,644	65,457	14,187
1927	14,392	13,551	3,673	1,500	12,671	4,465	27,146	82,246	87,022	71,474	15,548

<sup>1</sup> Not including unapportioned surplus and capital and prior to 1915 also apportioned surplus For amount of latter item in 1915 and recent years see Table 317

<sup>2</sup> Includes group business.

Source: Prior to 1890 Frederick L. Hoffman, insurance statistician, Newark, N. J., 1890 and subsequent years, the Insurance Yearbook of the Spectator Co., New York, N. Y.

# No. 317.—LIFE INSURANCE: FINANCIAL CONDITION AND BUSINESS OF ALL COMPANIES OF THE UNITED STATES

NOTE.—All money figures in thousands of dollars. Data include business transacted in United States Territories and possessions Insurance operations of Veterans' Bureau are not included, see pp. 159 to 161

	1900	1910	1915	1920	1925	1926	1927
Number of companies	76	214	238	272	308	322	319
Capital stock, Dec. 31	12,832	40,545	52,545	66,905	105,707	128,050	132,449
Income, total	400,603	781,011	1,043,083	1,764,213	3,017,800	3,330,298	3,673,151
Premium income, total	324,724	593,388	784,319	1,384,839	2,383,913	2,624,014	2,874,452
Now premiums	62,276	70,180	92,441	274,478	340,566	347,245	361,124
Renewed <sup>1</sup>	256,142	517,536	683,991	1,099,740	1,999,480	2,229,654	2,452,696
Annuities	6,306	5,672	7,886	10,721	43,867	47,115	60,632
Interest and other income, total	75,879	187,623	258,765	379,274	633,887	706,284	798,699
Interest, dividends, etc.	64,949	160,514	229,659	324,372	527,577	582,849	641,532
Rents	8,225	10,310	10,941	16,312	23,125	24,228	27,243
Other	2,706	16,799	18,165	28,592	83,185	99,207	129,924

<sup>1</sup> Includes disability and double indemnity receipts and payments.

No. 317.—LIFE INSURANCE: FINANCIAL CONDITION AND BUSINESS OF ALL COMPANIES OF THE UNITED STATES—Continued

	1900	1910	1915	1920	1925	1926	1927
<b>Expenditures, total</b> .....	267, 580	540, 342	768, 506	1, 198, 866	1, 936, 422	2, 125, 772	2, 285, 123
Paid to policyholders.....	168, 688	387, 302	544, 705	744, 648	1, 242, 974	1, 373, 201	1, 499, 899
Death losses.....	100, 721	180, 654	237, 391	349, 964	493, 391	569, 077	612, 515
Matured endowments.....	18, 535	46, 349	63, 883	101, 181	114, 473	98, 715	89, 100
Annuities.....	4, 122	7, 428	8, 860	16, 897	38, 551	45, 691	44, 837
Surrendered policies, etc.....	22, 650	77, 518	123, 796	119, 061	248, 626	282, 605	324, 525
Dividends.....	22, 860	75, 354	111, 275	157, 847	351, 150	376, 913	417, 862
Other expenditures.....	98, 892	153, 040	223, 801	453, 717	693, 448	750, 671	795, 225
To agents, commissions, salaries, traveling expenses.....	61, 282	87, 629	115, 328	257, 822	399, 499	431, 053	449, 430
Medical fees, salaries, other employee costs.....	13, 034	26, 037	34, 312	61, 566	99, 233	104, 981	110, 792
Dividends to stockholders.....	1, 028	2, 140	3, 293	5, 308	14, 500	13, 205	18, 259
Other.....	23, 548	37, 235	70, 868	129, 021	180, 216	201, 332	216, 744
<b>Admitted assets, Dec. 31, total</b> .....	1, 742, 414	3, 875, 877	5, 190, 310	7, 319, 997	11, 537, 615	12, 939, 807	14, 391, 851
Real estate.....	158, 119	172, 961	173, 367	172, 011	265, 938	303, 418	350, 366
Real estate mortgages.....	501, 499	1, 227, 232	1, 779, 279	2, 174, 863	4, 799, 216	5, 564, 257	6, 183, 591
Stocks owned.....	794, 632	129, 622	81, 056	51, 356	81, 462	89, 395	102, 094
Bonds owned.....	7, 191	1, 659, 845	2, 094, 688	3, 588, 728	4, 331, 288	4, 592, 912	5, 078, 453
Collateral loans.....	64, 489	18, 941	16, 729	41, 301	20, 416	25, 514	27, 467
Premium notes and loans.....	88, 501	495, 100	779, 159	858, 915	1, 445, 507	1, 599, 390	1, 784, 974
Net deferred and unpaid premiums.....	33, 269	50, 956	73, 475	130, 923	251, 848	283, 993	315, 202
Cash, etc.....	75, 440	71, 113	114, 285	124, 747	124, 252	116, 683	133, 486
Other.....	19, 276	50, 107	78, 272	177, 152	217, 687	364, 245	416, 219
Asset items not admitted.....	12, 249	25, 186	31, 507	77, 424	119, 178	114, 297	117, 326
<b>Liabilities, Dec. 31, total</b> .....	1, 493, 379	3, 590, 978	4, 938, 028	6, 989, 309	10, 867, 475	12, 177, 363	13, 550, 908
Reserve.....	1, 443, 452	3, 225, 966	4, 398, 894	6, 337, 970	9, 926, 515	11, 061, 459	12, 291, 050
Losses, etc., unpaid.....	9, 863	17, 072	29, 588	43, 116	64, 268	75, 213	84, 208
Claims resisted.....	999	1, 779	2, 569	2, 475	5, 413	6, 730	8, 290
Dividends unpaid and left to accumulate.....	3, 598	5, 533	20, 654	53, 048	134, 272	150, 231	185, 173
Surplus apportioned.....	(2)	279, 614	411, 887	412, 339	563, 793	601, 386	684, 727
Other.....	35, 466	61, 014	74, 436	140, 361	173, 213	273, 344	297, 490
Surplus (including capital).....	249, 035	210, 440	252, 283	330, 688	670, 140	762, 444	840, 907
Total surplus funds.....	249, 035	490, 054	664, 170	743, 027	1, 233, 933	1, 363, 830	1, 525, 635
<b>POLICY ACCOUNT—AMOUNTS</b>							
<b>New business written and paid for, total</b> .....	1, 846, 267	2, 557, 053	3, 594, 697	10, 105, 445	15, 472, 999	16, 460, 531	17, 135, 459
Ordinary <sup>1</sup> .....	1, 280, 265	1, 822, 260	2, 621, 014	8, 489, 971	10, 563, 128	11, 044, 742	11, 404, 909
Group.....					1, 253, 619	1, 367, 879	1, 265, 940
Industrial.....	566, 002	734, 793	973, 683	1, 615, 474	3, 656, 253	4, 047, 011	4, 464, 610
<b>In force Dec. 31, total</b> .....	8, 561, 249	16, 404, 261	22, 784, 191	42, 281, 391	71, 689, 749	79, 644, 437	87, 022, 103
Ordinary, total <sup>2</sup> .....	7, 093, 220	13, 227, 213	18, 349, 285	35, 081, 538	54, 566, 797	60, 031, 335	65, 043, 873
Whole life.....	4, 790, 345	8, 811, 743	12, 425, 471	25, 583, 423	39, 299, 872	43, 269, 514	47, 097, 276
Endowment.....	1, 664, 450	3, 043, 689	3, 656, 723	6, 975, 433	9, 636, 968	10, 512, 313	11, 376, 517
Other.....	658, 425	1, 371, 782	2, 267, 092	2, 532, 683	5, 629, 957	6, 249, 508	6, 570, 080
Group.....					4, 299, 271	5, 425, 988	6, 429, 743
Industrial.....	1, 468, 028	3, 177, 048	4, 434, 906	7, 189, 852	12, 823, 681	14, 187, 164	15, 548, 488
<b>NUMBER OF POLICIES (thousands)</b>							
<b>Written during year, total</b> .....	4, 671	6, 002	8, 464	13, 249	20, 325	20, 572	22, 177
Ordinary <sup>3</sup> .....	729	993	1, 495	3, 924	3, 897	4, 006	4, 266
Group.....					3	3	5
Industrial.....	3, 942	5, 009	6, 968	9, 325	16, 425	16, 563	17, 907
<b>In force Dec. 31, total</b> .....	14, 395	29, 999	43, 032	66, 489	97, 629	103, 466	109, 392
Ordinary <sup>3</sup> .....	3, 176	6, 964	9, 890	16, 695	23, 882	25, 487	27, 128
Group.....					12	14	18
Industrial.....	11, 219	23, 034	33, 142	49, 895	73, 736	77, 965	82, 246

<sup>1</sup> Includes disability and double indemnity receipts and payments.

<sup>2</sup> "Surplus apportioned" included in "surplus, including capital."

<sup>3</sup> Includes "Group" prior to 1925.

Source The Insurance Yearbook of the Spectator Co., New York, N. Y.



# No. 318.—LIFE INSURANCE, SUMMARY OF FINANCIAL CONDITION AND POLICY ACCOUNTS: COMPANIES REPORTING TO NEW YORK INSURANCE DEPARTMENT

NOTE.—Data relate to all companies authorized to sell life insurance in New York State, which include nearly all of the important companies doing business in the United States. The figures relate to the entire business of such companies and not that in New York alone

[All figures in thousands of dollars or thousands of policies]

Calendar year	Insurance in force end of year <sup>1</sup> (amount)	Calendar year	Insurance in force end of year <sup>1</sup> (amount)	Calendar year	Insurance in force end of year <sup>1</sup> (amount)
1859	141,498	1875	1,922,043	1891	3,868,386
1860	163,703	1876	1,735,995	1892	4,208,975
1861	165,256	1877	1,556,105	1893	4,523,478
1862	183,963	1878	1,480,921	1894	4,657,583
1863	267,659	1879	1,439,961	1895	4,818,171
1864	395,703	1880	1,475,995	1896	4,967,576
1865	580,882	1881	1,540,090	1897	5,255,726
1866	865,106	1882	1,637,649	1898	5,630,053
1867	1,161,730	1883	1,763,730	1899	6,265,908
1868	1,523,985	1884	1,870,746	1900	6,947,097
1869	1,836,618	1885	2,024,103	1901	7,572,803
1870	2,023,885	1886	2,223,358	1902	8,440,713
1871	2,101,462	1887	2,475,750	1903	9,241,273
1872	2,114,743	1888	2,763,906	1904	10,023,091
1873	2,086,027	1889	3,147,006	(See last column below)	
1874	1,997,236	1890	3,547,035		

Calendar year	Assets	Liabilities, exclusive of capital	Income		Disbursements		Policies in force at end of year <sup>1</sup>	
			Total	Premium	Total	To policy-holders	Number (thousands)	Amount
1860	24,116	17,160	5,998	4,770	2,909	2,102	56	163,703
1870	269,520	221,161	105,026	90,215	63,877	44,949	748	2,023,885
1880	418,119	346,473	76,203	51,954	66,562	52,154	609	1,475,995
1890	758,314	668,228	193,247	151,945	131,289	88,462	1,276	3,547,035
1900	1,723,738	1,478,839	392,359	310,545	261,467	165,705	3,071	6,947,097
1905	2,651,317	2,289,031	619,426	484,407	397,830	257,957	5,306	10,553,840
1906	2,851,784	2,469,767	632,447	494,255	404,215	278,587	5,407	10,616,680
1907	2,917,968	2,606,846	625,719	483,983	401,090	292,466	5,324	10,404,508
1908	3,228,078	2,778,054	644,573	492,677	428,536	318,595	5,468	10,623,734
1909	3,466,643	2,967,162	679,724	507,114	462,486	341,993	5,756	11,110,457
1910	3,665,197	3,164,491	708,921	527,277	488,781	364,127	6,041	11,669,700
1911	3,918,071	3,377,125	750,116	558,425	521,320	387,654	6,621	12,802,989
1912	4,136,484	3,571,929	791,914	590,614	558,736	419,478	7,002	13,527,321
1913	4,351,043	3,802,073	833,681	622,845	586,312	436,908	7,452	14,324,485
1914	4,595,977	4,010,829	865,867	647,438	630,937	477,024	7,851	14,931,151
1915	4,802,904	4,222,318	917,993	677,947	687,256	507,459	8,284	15,609,722
1916	5,099,034	4,483,753	982,831	723,767	702,479	523,978	8,887	16,784,208
1917	5,450,171	4,771,716	1,088,470	801,223	746,051	537,525	9,518	18,457,379
1918	5,907,531	5,276,419	1,146,253	860,814	851,893	642,448	10,198	20,196,274
1919	6,062,858	5,445,006	1,311,956	991,460	944,509	670,161	11,607	24,010,146
1920	6,541,653	5,701,223	1,501,901	1,172,069	1,028,202	691,183	13,200	26,840,198
1921	7,018,030	6,736,889	1,630,785	1,259,192	1,091,160	753,938	14,036	29,145,345
1922	7,592,706	7,346,575	1,816,199	1,392,670	1,297,678	907,808	14,869	31,688,501
1923	8,222,286	7,931,369	2,025,372	1,563,698	1,430,083	997,830	16,055	35,181,051
1924	9,008,862	8,610,229	2,255,490	1,747,767	1,545,802	1,071,516	17,126	41,774,443
1925	10,023,932	9,523,948	2,512,995	1,936,957	1,603,238	1,094,526	18,590	43,751,246
1926	11,234,738	10,660,244	2,789,074	2,142,291	1,762,203	1,200,856	19,826	48,248,043
1927	12,482,167	11,892,865	3,064,172	2,349,484	1,892,802	1,307,218	20,961	52,320,679

<sup>1</sup> Industrial business and, beginning 1920, group business not included.

Source. The Insurance Yearbook, the Spectator Co., New York, N. Y.

# **No. 319.—LIFE INSURANCE ISSUED AND TERMINATED: ALL COMPANIES REPORTING TO NEW YORK INSURANCE DEPARTMENT**

NOTE.—Industrial and group insurance are not included. See also headnote, Table 318

	Number of policies (thousands)				Amount (thousands of dollars)			
	1924	1925	1926	1927	1924	1925	1926	1927
New issues <sup>1</sup> .....	2, 383	2, 602	2, 703	2, 810	7, 233, 738	7, 788, 047	8, 190, 636	8, 379, 677
Policies terminated, total.....	1, 340	1, 298	1, 462	1, 675	3, 025, 408	3, 161, 294	3, 691, 896	4, 309, 558
By—								
Death.....	120	131	144	148	317, 343	318, 523	366, 587	397, 382
Maturity.....	98	85	73	62	118, 273	95, 396	79, 058	68, 864
Expiry.....	213	212	248	288	395, 864	382, 498	412, 446	450, 573
Surrender.....	275	296	326	398	697, 931	748, 140	860, 584	1, 064, 185
Lapse.....	597	564	653	772	1, 414, 902	1, 415, 014	1, 714, 822	2, 052, 600
Change and decrease.....	37	9	17	4	81, 096	199, 247	255, 803	272, 898
Disability.....	-----	1	1	1	-----	2, 476	2, 530	2, 986

<sup>1</sup> Includes all new issues, old policies revived or increased, and additions by dividends

# **No. 320.—LIFE INSURANCE ISSUED AND TERMINATED BY SURRENDER, LAPSE, AND CHANGE AND DECREASE: COMPANIES REPORTING TO NEW YORK INSURANCE DEPARTMENT**

NOTE.—Policies terminated by death, maturity, and expiry are not included in this table. Industrial business and, beginning 1920, group business not included. See also headnote, Table 318

[All figures expressed in thousands of dollars or thousands of policies]

Year	Issued <sup>1</sup>		Terminated by surrender, lapse, and decrease		Year	Issued <sup>1</sup>		Terminated by surrender, lapse, and decrease	
	Num- ber	Amount	Num- ber	Amount		Num- ber	Amount	Num- ber	Amount
1865.....	86	245, 427	14	34, 780	1897.....	431	923, 805	186	444, 429
1866.....	134	404, 508	21	56, 893	1898.....	486	1, 018, 366	200	433, 461
1867.....	159	471, 612	35	105, 101	1899.....	633	1, 304, 306	214	442, 236
1868.....	202	579, 657	50	147, 104	1900.....	687	1, 356, 770	236	467, 226
1869.....	231	614, 762	77	215, 080	1901.....	788	1, 470, 318	240	454, 394
1870.....	237	587, 863	96	264, 664	1902.....	907	1, 646, 013	281	515, 893
1871.....	210	488, 663	125	328, 599	1903.....	976	1, 759, 682	297	522, 709
1872.....	201	489, 925	109	295, 750	1904.....	1, 101	1, 834, 826	349	627, 914
1873.....	199	465, 614	119	316, 785	1905.....	1, 018	1, 733, 102	403	701, 715
1874.....	145	351, 804	119	302, 673	1906.....	715	1, 229, 809	415	756, 599
1875.....	133	299, 276	96	243, 930	1907.....	569	997, 262	314	562, 028
1876.....	99	232, 665	87	224, 101	1908.....	592	1, 090, 979	327	610, 084
1877.....	82	178, 284	83	208, 851	1909.....	695	1, 284, 242	306	570, 631
1878.....	67	156, 501	64	172, 604	1910.....	747	1, 362, 590	296	541, 408
1879.....	67	167, 865	45	120, 826	1911.....	812	1, 577, 846	323	604, 383
1880.....	72	187, 504	34	90, 292	1912.....	898	1, 702, 147	365	701, 476
1881.....	81	222, 582	31	82, 453	1913.....	1, 016	1, 840, 578	399	732, 319
1882.....	92	257, 517	33	93, 928	1914.....	1, 013	1, 808, 730	433	833, 691
1883.....	110	308, 065	38	102, 728	1915.....	1, 080	1, 928, 289	446	859, 635
1884.....	128	321, 310	51	125, 130	1916.....	1, 257	2, 362, 193	405	765, 096
1885.....	150	378, 215	59	128, 945	1917.....	1, 378	2, 892, 880	403	729, 489
1886.....	151	448, 514	47	132, 241	1918.....	1, 335	2, 965, 541	401	731, 160
1887.....	175	521, 171	52	146, 888	1919.....	2, 134	5, 199, 839	438	797, 237
1888.....	204	631, 732	63	183, 307	1920.....	2, 420	6, 068, 203	561	1, 110, 157
1889.....	251	787, 665	72	206, 450	1921.....	2, 012	4, 902, 464	881	1, 983, 026
1890.....	288	883, 787	84	251, 660	1922.....	2, 038	5, 518, 885	877	2, 032, 856
1891.....	327	932, 706	114	344, 287	1923.....	2, 352	6, 694, 734	827	1, 884, 043
1892.....	353	952, 884	128	377, 407	1924.....	2, 383	7, 233, 738	908	2, 193, 928
1893.....	404	1, 058, 660	154	435, 728	1925.....	2, 602	7, 788, 047	868	2, 362, 401
1894.....	397	985, 520	190	506, 932	1926.....	2, 703	8, 190, 636	996	2, 831, 274
1895.....	367	864, 816	182	453, 114	1927.....	2, 810	8, 379, 677	1, 175	3, 389, 743
1896.....	350	796, 124	188	466, 029					

<sup>1</sup> Includes all new issues, old policies revived or increased, and additions by dividends.

Source of Tables 319 and 320. The Insurance Yearbook, the Spectator Co., New York, N. Y.

# **No. 321.—LIFE INSURANCE: ORDINARY AND INDUSTRIAL INSURANCE WRITTEN, BY STATES**

NOTE.—Totals in this table and No. 322 do not agree with totals in Tables 315 to 317 because of differences in the reports from which they are compiled as furnished by the companies to the various insurance departments, and because of duplications from reinsurance. The former also cover continental United States only

[All figures in thousands of dollars]

Division and State	Ordinary <sup>1</sup>				Industrial			
	1924	1925	1926	1927	1924	1925	1926	1927
<b>Continental United States<sup>2</sup></b>	<b>10,400,709</b>	<b>12,477,829</b>	<b>13,260,647</b>	<b>13,931,624</b>	<b>2,851,349</b>	<b>3,569,078</b>	<b>3,980,817</b>	<b>4,289,808</b>
<b>New England</b>	<b>719,660</b>	<b>858,855</b>	<b>866,943</b>	<b>898,947</b>	<b>302,590</b>	<b>357,871</b>	<b>365,635</b>	<b>373,539</b>
Maine	49,873	53,486	60,703	59,320	18,906	21,974	23,773	22,587
New Hampshire	29,464	34,101	37,771	37,823	14,011	16,174	15,029	16,032
Vermont	18,576	27,825	27,242	28,791	7,253	8,685	8,910	8,234
Massachusetts	395,021	470,586	460,157	486,342	174,455	207,172	207,668	212,683
Rhode Island	57,881	68,111	69,015	71,263	29,393	34,552	37,992	38,842
Connecticut	168,905	204,764	212,055	215,909	58,873	69,314	72,263	75,160
<b>Middle Atlantic</b>	<b>3,000,358</b>	<b>3,494,222</b>	<b>3,854,858</b>	<b>3,973,677</b>	<b>963,873</b>	<b>1,123,960</b>	<b>1,243,784</b>	<b>1,345,481</b>
New York	1,741,722	2,000,440	2,222,306	2,351,724	484,090	577,893	619,362	672,713
New Jersey	336,420	480,739	433,834	476,722	158,246	180,396	197,125	221,616
Pennsylvania	922,214	1,013,043	1,198,718	1,145,231	321,537	365,671	427,297	451,152
<b>East North Central</b>	<b>2,358,440</b>	<b>2,879,580</b>	<b>3,350,799</b>	<b>3,454,253</b>	<b>610,451</b>	<b>792,999</b>	<b>883,994</b>	<b>907,700</b>
Ohio	617,004	787,703	811,523	873,557	211,271	281,545	314,018	320,540
Indiana	257,462	307,454	333,911	361,167	116,248	143,154	156,325	146,422
Illinois	862,332	990,601	1,181,936	1,200,930	164,354	199,310	232,099	252,379
Michigan	417,277	549,575	760,835	748,108	81,010	106,113	136,004	139,176
Wisconsin	204,366	247,247	262,535	270,491	37,568	42,877	45,038	48,884
<b>West North Central</b>	<b>1,170,666</b>	<b>1,324,571</b>	<b>1,310,861</b>	<b>1,428,644</b>	<b>180,097</b>	<b>233,433</b>	<b>262,077</b>	<b>273,647</b>
Minnesota	273,490	276,722	275,661	261,075	24,129	28,333	29,867	30,323
Iowa	203,115	254,500	238,208	237,358	19,862	22,470	22,465	24,351
Missouri	341,748	372,988	394,590	494,672	108,843	143,441	162,101	172,204
North Dakota	41,473	45,229	43,835	47,230	4	5	7	8
South Dakota	48,629	52,335	42,533	44,228	6	7	11	14
Nebraska	116,406	169,251	141,038	154,588	7,674	10,456	11,493	12,343
Kansas	145,806	153,646	174,996	189,492	19,580	28,721	36,133	34,404
<b>South Atlantic</b>	<b>970,730</b>	<b>1,117,930</b>	<b>1,152,784</b>	<b>1,219,214</b>	<b>352,481</b>	<b>482,447</b>	<b>559,849</b>	<b>612,871</b>
Delaware	23,759	38,928	40,537	49,045	9,632	12,000	11,591	13,057
Maryland	147,048	153,818	163,453	164,100	67,665	85,164	96,061	97,141
Dist. of Columbia	63,662	72,059	76,244	85,585	17,987	29,928	33,298	37,196
Virginia	159,426	145,822	140,073	153,983	62,903	64,598	68,716	101,968
West Virginia	105,091	111,489	125,882	127,254	25,934	32,367	35,551	36,822
North Carolina	153,419	171,529	172,405	198,629	67,015	77,077	88,277	99,224
South Carolina	76,539	86,954	81,160	90,613	35,749	54,390	59,952	78,573
Georgia	149,738	178,362	161,799	210,810	54,643	66,712	81,532	110,211
Florida	92,048	158,398	191,231	139,181	10,953	40,211	64,871	38,679
<b>East South Central</b>	<b>472,682</b>	<b>633,136</b>	<b>572,374</b>	<b>629,994</b>	<b>209,490</b>	<b>238,021</b>	<b>286,564</b>	<b>294,369</b>
Kentucky	127,458	175,504	152,593	184,141	64,685	75,961	93,738	88,232
Tennessee	160,202	218,003	185,663	213,884	80,967	86,438	106,366	115,647
Alabama	113,607	154,576	151,871	155,228	48,587	69,325	64,765	69,786
Mississippi	71,414	85,053	82,247	76,741	15,251	21,237	21,696	20,705
<b>West South Central</b>	<b>671,409</b>	<b>859,990</b>	<b>852,789</b>	<b>926,660</b>	<b>115,901</b>	<b>169,495</b>	<b>201,552</b>	<b>232,762</b>
Arkansas	56,004	117,121	111,572	117,398	14,345	19,990	12,291	27,687
Louisiana	98,129	134,099	117,220	129,292	26,329	40,851	45,112	44,406
Oklahoma	139,801	170,151	184,744	202,429	12,939	28,560	29,147	30,437
Texas	377,475	438,649	439,253	477,641	62,288	85,095	115,002	130,252
<b>Mountain</b>	<b>259,255</b>	<b>323,545</b>	<b>317,375</b>	<b>342,516</b>	<b>21,058</b>	<b>32,508</b>	<b>27,620</b>	<b>28,774</b>
Montana	39,073	43,155	38,643	38,177	2,421	4,127	3,148	2,853
Idaho	27,971	47,791	33,647	31,159	1,135	1,605	1,405	1,593
Wyoming	16,862	17,640	22,891	18,475	12	13	16	19
Colorado	88,815	111,306	133,021	155,167	12,524	15,674	16,432	17,686
New Mexico	14,394	14,506	12,973	15,307	89	85	64	96
Arizona	22,301	24,789	21,423	23,424	19	22	29	201
Utah	41,662	53,700	48,973	54,067	4,843	6,606	6,421	6,360
Nevada	8,176	10,658	5,804	6,741	10	43	14	16
<b>Pacific</b>	<b>782,911</b>	<b>972,790</b>	<b>972,407</b>	<b>1,040,893</b>	<b>95,413</b>	<b>123,315</b>	<b>149,806</b>	<b>170,115</b>
Washington	141,306	175,591	176,942	180,813	14,598	18,531	20,598	21,712
Oregon	88,552	102,061	100,289	102,959	6,203	7,773	8,687	8,687
California	553,054	695,318	695,176	757,622	74,617	97,011	120,757	139,707

<sup>1</sup> Includes group insurance.

<sup>2</sup> Totals, except for industrial insurance written, 1924, include small amounts not distributed by States.

Source: Insurance Yearbook of the Spectator Co., New York, N. Y.

# No. 322.—LIFE INSURANCE: ORDINARY AND INDUSTRIAL INSURANCE IN FORCE, BY STATES

NOTE.—See headnote, Table 321

[All figures in millions and tenths of millions of dollars]

Division and State	Ordinary <sup>1</sup>				Industrial			
	1910	1920	1926	1927	1910	1920	1926	1927
Continental United States <sup>2</sup>	11,337.0	33,543.0	64,143.9	69,761.4	2,792.0	6,935.8	13,710.6	15,087.6
New England.....	1,026.3	2,651.2	4,855.3	4,754.4	432.4	894.5	1,671.1	1,805.5
Maine.....	85.8	200.5	353.3	378.6	16.5	42.4	86.7	92.8
New Hampshire.....	53.0	119.3	217.2	233.8	14.4	30.6	65.7	72.9
Vermont.....	57.6	109.9	177.8	189.4	7.0	16.5	35.1	37.7
Massachusetts.....	592.7	1,500.0	2,661.5	2,362.7	257.3	522.6	943.0	1,012.4
Rhode Island.....	77.2	221.3	395.5	430.4	52.6	102.3	184.5	200.7
Connecticut.....	160.0	500.3	1,050.0	1,159.5	84.5	180.0	356.0	387.9
Middle Atlantic.....	3,326.0	9,122.4	18,897.9	20,975.2	1,172.5	2,799.1	5,585.4	6,081.0
New York.....	1,865.2	5,196.4	11,063.8	12,347.3	705.1	1,342.6	2,802.8	3,089.2
New Jersey.....	350.9	1,024.9	2,157.2	2,416.3	-----	517.6	994.6	1,081.9
Pennsylvania.....	1,110.0	2,901.1	5,676.9	6,211.6	467.4	933.9	1,748.0	1,909.9
East North Central.....	2,890.7	7,400.9	14,920.1	16,529.7	569.9	1,481.9	2,886.2	3,237.4
Ohio.....	681.3	2,063.2	4,015.4	4,456.3	197.1	516.1	977.2	1,082.9
Indiana.....	322.9	847.9	1,500.2	1,673.7	95.8	232.9	389.0	481.3
Illinois.....	917.0	2,674.7	5,445.3	5,986.3	193.7	469.5	918.5	995.5
Michigan.....	303.9	1,110.2	2,567.2	2,882.2	47.8	159.4	379.5	434.3
Wisconsin.....	165.7	705.0	1,392.0	1,531.2	35.6	103.9	222.1	243.5
West North Central.....	1,405.7	4,410.1	7,070.4	7,581.8	163.0	420.0	813.8	867.2
Minnesota.....	262.3	790.6	1,454.9	1,555.0	16.8	52.1	118.4	128.1
Iowa.....	299.5	922.0	1,373.4	1,443.4	-----	46.9	85.4	92.8
Missouri.....	425.5	1,206.6	2,132.7	2,343.4	122.4	254.1	484.2	512.8
North Dakota.....	56.3	220.9	242.1	256.4	-----	.1	.2	.2
South Dakota.....	67.7	236.4	259.0	268.7	-----	.2	.2	.3
Nebraska.....	149.4	540.9	782.1	827.5	8.8	19.9	38.3	42.0
Kansas.....	145.1	492.8	826.2	887.3	20.0	46.6	87.1	91.0
South Atlantic.....	1,129.6	3,223.9	5,678.7	6,133.2	243.9	627.6	1,275.4	1,400.8
Delaware.....	32.0	104.4	189.9	213.1	17.2	32.1	50.1	51.7
Maryland.....	177.7	454.4	862.5	939.4	97.4	197.4	331.0	353.5
Dist. of Columbia.....	70.5	173.9	389.7	431.5	33.2	34.9	98.4	104.0
Virginia.....	163.7	520.1	835.4	901.5	39.3	101.1	199.7	213.8
West Virginia.....	94.7	298.3	603.4	616.9	15.0	51.6	95.1	109.4
North Carolina.....	143.9	502.9	870.1	962.2	22.2	75.7	164.6	189.6
South Carolina.....	127.3	363.6	453.3	477.0	-----	50.6	103.5	125.2
Georgia.....	263.0	625.6	902.7	983.4	24.7	73.5	176.3	203.2
Florida.....	66.9	180.8	571.8	578.2	-----	10.8	56.7	56.4
East South Central.....	674.5	1,607.9	2,833.0	3,062.3	109.7	291.1	549.8	599.1
Kentucky.....	228.3	464.6	807.0	891.3	63.3	129.3	219.2	237.2
Tennessee.....	170.6	494.6	915.8	987.6	37.5	94.5	188.1	208.0
Alabama.....	154.8	378.5	682.8	735.4	8.9	47.5	109.7	121.1
Mississippi.....	120.8	270.2	427.4	448.0	-----	19.8	32.3	32.8
West South Central.....	479.0	2,115.5	3,798.3	4,081.5	37.3	175.5	398.1	440.3
Arkansas.....	89.8	293.1	493.0	521.4	2.9	18.4	42.6	40.0
Louisiana.....	150.2	359.3	653.9	695.9	20.8	66.3	116.4	122.8
Oklahoma.....	78.7	465.4	763.6	834.2	4.6	27.6	58.3	64.6
Texas.....	*160.2	997.7	1,837.8	2,029.9	(*)	63.2	180.8	207.9
Mountain.....	345.5	1,032.0	1,574.3	1,665.7	5.8	49.8	100.6	108.1
Montana.....	54.1	183.4	225.9	237.4	1.8	7.0	11.5	11.7
Idaho.....	27.6	141.9	164.1	171.4	-----	2.1	4.7	5.2
Wyoming.....	17.5	61.0	85.0	85.5	-----	.2	.3	.4
Colorado.....	145.3	369.1	594.2	639.0	-----	25.0	58.1	64.7
New Mexico.....	19.0	61.5	81.3	86.8	-----	.1	.3	.4
Arizona.....	25.4	79.6	130.8	136.1	-----	.6	.7	.7
Utah.....	45.5	102.2	250.3	268.3	4.0	15.3	24.9	24.8
Nevada.....	11.0	23.3	42.8	41.3	-----	.1	.2	.3
Pacific.....	559.7	1,929.1	4,457.6	4,913.2	52.5	196.4	477.8	539.2
Washington.....	125.6	453.9	842.5	914.4	8.8	37.3	74.7	80.4
Oregon.....	79.2	272.1	498.8	531.9	3.6	15.0	30.3	33.2
California.....	354.9	1,203.0	3,116.3	3,467.0	40.0	144.1	372.8	425.6

<sup>1</sup> Includes group insurance<sup>2</sup> Totals for 1926 and 1927 include small amounts not distributed by States.<sup>3</sup> Industrial included in ordinary

Source. Insurance Yearbook of the Spectator Co., New York, N. Y.

## No. 323.—LIFE INSURANCE OF FRATERNAL ORDERS IN THE UNITED STATES

NOTE.—Although the number of orders reporting varies considerably, most of the larger orders report regularly, so that the figures are fairly comparable from year to year. Prior to 1920 the figures for the number of orders as given below include all known to be in existence whether reporting or not, thereafter they represent only the number reporting.

[All figures, except number of orders and certificates, in thousands of dollars]

Calendar year	Number of orders	Assets	Liabilities	Income	
				Total	Net received from members
1901.....	489	29,427	8,470	81,629	72,213
1905.....	570	64,492	11,415	95,675	91,355
1910.....	497	129,427	18,755	128,632	114,339
1915.....	472	212,822	28,040	133,341	122,295
1917.....	533	280,738	32,736	155,090	140,417
1918.....	506	270,059	71,966	155,878	140,372
1919.....	463	295,581	57,903	180,124	160,021
1920.....	<sup>1</sup> 336	326,077	55,562	181,229	165,152
1921.....	<sup>1</sup> 283	328,520	63,662	194,798	171,174
1922.....	<sup>1</sup> 245	340,086	77,956	197,663	173,239
1923.....	<sup>1</sup> 227	490,855	100,837	206,570	128,149
1924.....	<sup>1</sup> 228	565,929	110,570	216,226	186,325
1925.....	<sup>1</sup> 224	628,262	125,989	222,147	188,370
1926.....	<sup>1</sup> 249	659,876	120,193	224,336	181,664
1927.....	<sup>1</sup> 235	759,517	107,063	238,431	193,298

  

Calendar year	Disbursements			Amount of insurance written during year	In force at end of year	
	Total	Paid for claims	To agents and for management		Amount	Number of certificates (thousands)
1901.....	77,343	64,128	8,850	799,627	5,656,453	4,519
1905.....	85,154	72,552	11,349	1,026,308	8,150,351	6,119
1910.....	110,168	92,280	16,897	1,331,553	9,562,512	8,558
1915.....	123,625	98,720	16,133	922,891	8,694,449	7,696
1917.....	134,938	97,398	20,712	822,042	9,129,974	7,467
1918.....	137,191	118,621	17,782	834,170	8,838,579	8,021
1919.....	172,013	141,380	24,600	1,327,958	9,531,217	10,380
1920.....	135,807	109,595	26,213	1,177,971	8,879,452	8,439
1921.....	136,604	107,925	28,679	785,131	9,169,042	8,578
1922.....	151,589	110,568	34,063	915,555	8,687,939	8,016
1923.....	151,894	109,545	32,854	795,023	8,758,555	7,514
1924.....	153,308	116,432	31,789	1,096,813	9,805,648	12,514
1925.....	160,466	121,241	36,245	1,105,881	9,769,609	8,452
1926.....	159,264	121,212	34,304	1,033,285	9,834,697	8,549
1927.....	170,740	130,398	37,163	1,025,522	9,726,662	8,342

<sup>1</sup> See headnote

# **No. 324.—MUTUAL ACCIDENT AND SICK BENEFIT ASSOCIATIONS: FINANCIAL CONDITION AND BUSINESS TRANSACTED**

NOTE.—Although many small companies formerly reporting are not covered in recent years, the large companies have reported regularly, and the figures are fairly comparable from year to year. Prior to 1920 the figures for the number of companies as given below include all known to be in existence whether reporting or not, thereafter they represent only the number reporting

[All figures, except number of companies and certificates, in thousands of dollars]

Year	Number of companies	Admitted assets	Net surplus	Pre-miums or assessments	In-come (including interest)	Paid for claims	Paid to agents, medical examiners, and for management	Total disbursements	Number of certificates written during year	Number of certificates in force at end of year
1901.....	102	1,617	1,490	2,957	3,201	1,643	1,753	3,348	286,183	310,092
1905.....	165	3,769	3,198	6,134	7,513	3,513	3,330	6,862	667,809	887,804
1910.....	197	5,169	3,665	9,291	10,938	5,169	4,258	10,434	946,340	1,382,415
1915.....	177	7,103	4,483	10,969	12,555	6,955	4,354	11,769	693,654	1,359,368
1916.....	167	8,622	5,776	14,399	16,621	8,845	5,969	15,678	990,436	1,730,035
1917.....	167	9,972	6,798	15,627	18,134	9,115	5,770	16,162	1,137,077	1,878,222
1918.....	161	10,250	6,815	15,235	16,742	9,654	5,661	15,796	751,522	1,688,401
1919.....	123	12,745	8,898	19,295	21,033	10,257	7,605	18,366	797,845	1,837,435
1920.....	<sup>1</sup> 67	13,709	9,690	19,538	22,712	10,580	8,771	19,944	713,270	1,853,328
1921.....	<sup>1</sup> 62	15,260	11,149	18,929	22,125	10,584	7,621	19,306	607,438	1,773,787
1922.....	<sup>1</sup> 82	28,577	21,657	19,429	22,490	11,684	6,532	19,035	611,703	1,739,444
1923.....	<sup>1</sup> 127	30,749	17,488	31,462	34,435	17,932	12,711	30,938	582,168	1,679,361
1924.....	<sup>1</sup> 107	47,236	34,215	41,758	44,708	23,337	10,767	38,233	731,285	2,168,901
1925.....	<sup>1</sup> 167	46,682	31,558	40,807	44,903	22,395	15,019	36,672	807,722	2,170,562
1926.....	<sup>1</sup> 173	44,244	29,579	44,901	48,720	26,408	17,978	43,424	644,782	2,036,053
1927.....	<sup>1</sup> 173	44,992	28,881	47,579	50,892	27,958	18,766	47,608	841,384	2,259,699

<sup>1</sup> See headnote

# **No. 325.—CASUALTY, SURETY, AND MISCELLANEOUS INSURANCE: FINANCIAL CONDITION AND BUSINESS TRANSACTED (STOCK COMPANIES ONLY)**

NOTE.—Data cover practically all stock companies doing casualty or surety business in United States.

[All figures, except number of companies, in thousands of dollars]

Year	Number of companies	Capital	Assets	Net surplus over capital and liabilities	Net pre-miums <sup>1</sup>	Total income	Pay-ments to policy-holders <sup>2</sup>	Actual expenses of management (including taxes)	Total expenditures
1895.....	53	20,676	42,211	13,044	16,684	19,318	5,916	8,755	15,697
1900.....	57	23,572	65,808	27,059	27,186	30,348	12,755	15,419	27,504
1905.....	84	43,630	152,866	39,070	55,344	63,191	21,647	28,922	54,353
1910.....	154	65,485	309,716	78,178	94,395	111,042	41,465	57,915	100,115
1915.....	181	78,024	603,670	78,035	160,320	174,892	75,444	74,251	159,397
1916.....	186	74,987	642,621	84,178	199,063	220,621	89,370	84,193	183,151
1917.....	189	74,273	692,195	76,796	241,514	257,518	104,986	95,171	208,948
1918.....	179	92,239	852,466	87,990	304,614	330,696	122,745	117,792	256,912
1919.....	174	89,484	926,951	89,651	364,389	392,239	150,176	145,087	313,430
1920.....	<sup>3</sup> 189	98,737	1,014,386	92,861	459,170	489,774	196,360	183,514	400,724
1921.....	<sup>3</sup> 205	98,874	1,139,586	115,749	467,046	499,742	229,284	205,675	460,522
1922.....	<sup>3</sup> 189	119,890	1,304,134	114,265	444,241	498,143	221,690	201,461	464,551
1923.....	<sup>3</sup> 240	138,251	1,492,323	156,969	545,689	582,827	277,395	238,747	532,945
1924.....	<sup>3</sup> 258	150,009	1,671,188	179,679	613,941	665,395	320,883	251,950	600,568
1925.....	<sup>3</sup> 274	159,630	1,634,744	202,680	698,729	752,037	347,440	286,024	660,092
1926.....	<sup>3</sup> 289	186,265	2,173,151	225,542	764,357	827,911	387,311	312,096	720,230
1927.....	<sup>3</sup> 334	211,366	2,473,647	293,829	834,878	901,404	427,344	341,023	788,586

<sup>1</sup> Total premium receipt7 prior to 1910.

<sup>2</sup> Includes all expenses in connection with payment of claims

<sup>3</sup> Number of companies which show figures for the year

Source of Tables 324 and 325: The Insurance Yearbook of the Spectator Co., New York, N. Y.

### No. 326.—STOCK CASUALTY, SURETY, AND MISCELLANEOUS INSURANCE COMPANIES: PREMIUMS AND LOSSES, BY CLASSES OF INSURANCE

NOTE.—Data cover about 80 per cent of the business of stock casualty, surety, and miscellaneous insurance companies, excluding a large number of smaller companies and those that do not transact multiple casualty lines

[All money figures in thousands of dollars]

Class	1925			1926			1927		
	Premiums received	Losses paid	Ratio, per cent	Premiums received	Losses paid	Ratio, per cent	Premiums received	Losses paid	Ratio, per cent
Total.....	577,291	289,504	50 1	630,660	321,810	50 6	678,574	358,410	52 7
Accident.....	45,348	20,286	44 7	46,718	21,503	46 0	50,873	23,802	46 7
Automobile (not segregated).....	8,356	3,501	41 9	19,438	14,690	49 7	110,063	15,635	56 0
Automobile collision.....	12,889	7,799	60 3	12,373	8,519	63 8	14,038	9,656	63 8
Automobile fire.....	124	65	52 3	20	5	23 7	192	80	41 6
Automobile fire, theft, etc. <sup>1</sup> .....	103,708	49,099	47 3	122,871	61,314	49 9	129,450	61,881	47 4
Automobile liability.....	116,802	55,664	47 7	123,512	64,098	51 9	144,666	81,792	56 6
Automobile property damage.....	41,977	21,579	51 4	47,784	24,617	51 5	57,697	28,192	48 9
Automobile theft.....	148	85	57 8	22	10	45 6	48	21	45 7
Burglary and theft.....	28,081	13,311	47 4	30,833	12,606	40 9	35,500	12,441	35 0
Check forgery.....	18	3	16 3	23	3	14 4	36	2	5 7
Credit.....	4,112	1,495	36 4	4,926	1,843	37 4	4,600	2,531	55 0
Engine and machinery.....	3,092	821	26 5	3,698	856	23 1	3,254	802	24 7
Fidelity.....	33,957	12,916	38 0	36,641	15,541	42 4	36,783	16,746	45 5
Health.....	15,504	9,191	59 3	16,872	10,956	64 9	17,397	10,917	62 8
Liability.....	47,252	24,173	51 2	58,880	28,944	49 1	53,663	25,968	48 4
Livestock.....	1,324	877	66 2	1,099	818	74 4	868	646	74 4
Noncancelable accident and health.....	4,038	1,297	32 1	4,328	1,628	37 6	4,708	2,093	44 5
Plate glass.....	16,702	5,457	32 7	16,514	6,398	38 8	15,694	5,536	35 3
Property damage and collision.....	1,554	871	56 1	1,770	932	52 7	2,155	847	39 3
Sprinkler.....	916	405	44 2	931	491	52 7	1,091	370	33 9
Steam boiler.....	6,595	940	14 3	6,741	970	14 4	6,811	864	14 1
Surety.....	56,788	19,093	33 6	59,511	17,153	28 9	61,333	26,006	42 4
Workmen's collective.....	214	103	48 1	238	120	50 4	263	133	50 7
Workmen's compensation.....	130,506	89,209	68 4	146,454	98,542	67 3	155,793	102,879	65 7
Other.....	2	2		8			76	29	38 1

<sup>1</sup> Includes a small amount of automobile accident

<sup>2</sup> Includes motor vehicle fire and theft insurance of fire and marine companies in addition to that of casualty companies, but only amounts placed with casualty companies are included in grand total.

Source. The Spectator Co., New York, N. Y.

### No. 327.—DIVIDEND AND INTEREST PAYMENTS

NOTE.—All figures in thousands of dollars. Data cover railroad, industrial and traction companies, banks and trust companies, the National Government, and the New York City government

Calendar year	Total dividend and interest payments	Interest payments	Dividend payments			
			Total <sup>1</sup>	Industrial and miscellaneous corporations	Steam railroads	Street railways
1913.....	1,777,237	939,184	838,053	462,326	296,795	58,873
1914.....	1,787,376	965,600	821,776	438,357	284,338	64,417
1915.....	1,865,111	1,072,878	792,233	436,437	283,353	61,790
1916.....	2,135,093	1,208,926	926,107	539,832	313,135	72,241
1917.....	3,389,136	1,310,866	1,078,270	678,504	312,460	77,910
1918.....	2,724,732	1,702,525	1,022,207	645,461	289,625	75,821
1919.....	3,189,184	2,232,243	956,942	579,167	284,454	71,719
1920.....	3,414,876	2,432,784	982,092	601,680	285,985	72,888
1921.....	3,341,809	2,419,345	922,464	542,402	284,020	71,641
1922.....	3,399,719	2,469,070	930,649	524,675	282,100	70,818
1923.....	3,585,217	2,621,966	963,251	541,441	289,120	75,750
1924.....	3,840,590	2,827,901	1,012,689	566,170	301,195	84,090
1925.....	4,083,828	3,014,953	1,068,875	596,050	315,015	93,335
1926.....	4,391,185	3,218,500	1,172,685	664,375	331,175	109,695
1927.....	5,570,548	3,471,398	2,099,150	1,555,475	349,500	124,675
1928.....	5,893,411	3,703,924	2,189,487	1,618,942	364,355	131,650

<sup>1</sup> Includes bank dividends not separately shown.

Source. Survey of Current Business, compiled from New York Journal of Commerce.

**No. 328.—CAPITAL ISSUES: CORPORATE, FOREIGN GOVERNMENT, FARM LOAN,  
AND STATE AND MUNICIPAL**

NOTE.—In millions and tenths of millions of dollars. Preferred stocks of no par value and all common stocks are taken at their offering price, other issues at par. Privileged stock subscriptions are included. State and municipal issues include bonds issued by States, counties, and municipalities, and by school and road districts, and other independent governmental bodies

Kind of issue	1921	1922	1923	1924	1925	1926	1927	1928
<b>TOTAL</b>								
All issues.....	4,203 8	5,235 9	4,989.7	6,352 5	7,126 0	7,430 3	9,918 8	9,927.7
<b>Corporate, total.....</b>	<b>2,390 9</b>	<b>3,073 3</b>	<b>3,232.8</b>	<b>3,838 6</b>	<b>4,738 1</b>	<b>5,299.6</b>	<b>7,304 3</b>	<b>7,753.0</b>
Domestic.....								
Long-term bonds and notes.....	1,781 3	2,191 7	2,249.3	2,319.5	2,667.3	3,059 1	4,465 7	3,168 9
Short-term bonds and notes.....	213 2	133 8	180 5	335 7	308 0	294 5	302 5	204 9
Preferred stocks.....	74 9	332 8	406.7	346 1	636 8	543 6	1,048 3	1,383 5
Common stocks.....	200 2	287 7	329.2	319 6	610 1	676 6	675 5	2,048 2
Canadian.....	106 1	45 7	43.0	112 3	112 3	203 4	265 4	282.1
Other foreign.....	15 2	81 7	24.1	205 4	403 7	522 4	546 9	605 3
Foreign government.....	79 3	431 3	242 8	778 0	645 4	514 1	777 1	651 1
Farm-loan issues.....	121 9	386 4	392.5	179.1	188.2	131 3	179.6	63.9
State and municipal.....								
Domestic.....	1,208 5	1,100 7	1,063.1	1,399.0	1,399.6	1,365 1	1,509 6	1,415 5
Canadian.....	76 0	201 1	50.2	149.0	146 0	109 8	135 3	28.1
U. S. territories and possessions.....	27 1	43 0	8.2	8.8	8.7	10 4	12 9	6.2
<b>NEW CAPITAL</b>								
All issues.....	3,576 7	4,304.4	4,304.4	5,593 2	6,230 2	6,344 1	7,776 2	8,050.3
<b>Corporate, total.....</b>	<b>1,823.0</b>	<b>2,335 7</b>	<b>2,702.5</b>	<b>3,322.3</b>	<b>4,100 7</b>	<b>4,337.0</b>	<b>5,376 1</b>	<b>6,014.8</b>
Domestic.....								
Long-term bonds and notes.....	1,275 5	1,537 1	1,832.9	1,923 8	2,231 3	2,417 7	2,961 5	2,169 6
Short-term bonds and notes.....	160 9	104 4	143 3	276 1	220.7	249 2	220 7	210 5
Preferred stocks.....	71 3	292 8	335 1	318 0	594 3	509 3	867 8	1,135 5
Common stocks.....	194 2	277 2	324 1	511 2	558 3	577 8	591 8	1,765 7
Canadian.....	106 1	43.8	43 0	97 8	94 5	140 9	215 6	123.3
Other foreign.....	15.2	80.4	24.1	195.4	401.7	462 2	518 6	550.2
Foreign government.....	329 2	416 3	186 8	570 9	540 8	481 3	737 6	550 6
Farm-loan issues.....	121 9	344.4	337.5	179 1	168 7	91 1	86 8	63.9
State and municipal.....								
Domestic.....	1,109 4	1,070.9	1,043 1	1,379 6	1,352 1	1,343 5	1,475 0	1,379.9
Canadian.....	76 0	94.0	26 3	132 4	49 2	60 8	89 3	35 1
U. S. territories and possessions.....	27 1	43.0	8 2	8 8	8 7	10 4	11 4	6.2
<b>REFUNDING</b>								
All issues.....	627 1	931.5	685 3	759 3	905 9	1,086 1	2,142 6	1,877.4
<b>Corporate, total.....</b>	<b>567 9</b>	<b>737.5</b>	<b>530.3</b>	<b>516.3</b>	<b>637.4</b>	<b>942.6</b>	<b>1,228.2</b>	<b>1,738 3</b>
Domestic.....								
Long-term bonds and notes.....	505.8	654.6	416 4	395 7	436 0	641 4	1,504 2	999 3
Short-term bonds and notes.....	52 4	29.3	37.2	59.6	87 3	45 3	81 8	54 4
Preferred stocks.....	3 7	40 0	71.6	28 1	42 5	34 3	180 5	248 0
Common stocks.....	6 1	10.5	5 2	8 4	51 8	98.8	83 7	282.5
Canadian.....		1.9		14 5	17.8	62 6	49 8	98 8
Other foreign.....		1.2		10 0	2.0	60 2	28.3	55.3
Foreign government.....	50.0	15.0	56.0	207 1	104.6	32 9	39 5	100 5
Farm-loan issues.....		42.0	55.0		19.5	40.2	92.3	
State and municipal.....								
Domestic.....	9.2	29.8	20.0	19 3	47.5	21.5	34 6	35 6
Canadian.....		107.1	23.9	16.6	96 8	49.0	46 0	3.0
U. S. territories and possessions.....							1 5	
<b>CORPORATE ISSUES, NEW CAPITAL</b>								
Total.....	1,823 0	2,335 7	2,702.5	3,322 3	4,100 7	4,337.0	5,376 1	6,014.8
Railroads.....	352 7	523 8	464.5	779 6	380 3	346 0	505 7	364.1
Public utilities.....	491 9	726 2	888 0	1,325 6	1,496 1	1,604 4	2,076 5	1,882 7
Iron, steel, coal, copper, etc.....	84 8	184.9	291 9	197 9	133 1	193 2	100 5	215.2
Equipment manufacturers.....	8 3	10.2	13 8	12.0	13 8	17 8	23 2	0.1
Motors and accessories.....	25 7	48 4	66 8	29 5	186.1	131 4	94 7	66 8
Other industrial and manufacturing.....	281 4	239.7	324.3	261 4	501 4	526.9	705 4	890.2
Oil.....	291 5	151.1	194.3	167.1	168 4	262 7	317 3	216.2
Land, buildings, etc.....	53 2	181 9	250 9	333 4	715 5	709 5	630 4	716.3
Rubber.....	86 5	19 8	1 7	2 0	64 8	43.2	12 7	55 9
Shipping.....	2 6	20 5	3 6	13 8	30 1	21 5	26 3	21.2
Miscellaneous.....	144 3	249 4	202.3	192 9	411.2	500.5	682.9	1,577.2

Source: Commercial and Financial Chronicle.



## No. 329.—CAPITAL ISSUES OF CORPORATIONS

NOTE.—Data cover domestic and foreign corporate issues in the United States of \$100,000 or over, both new capital and refunding, excluding real estate offerings and prior to November, 1927, privileged stock subscriptions. Preferred stocks of no par value and common stocks are taken at their offering price, other issues at par

[All figures in thousands of dollars]

Year	Total	Railway and traction <sup>1</sup>				Public utility and industrial <sup>1</sup>			
		Total	Bonds	Notes	Stocks	Total	Bonds	Notes	Stocks
1907	1,393,913	957,049	440,588	267,597	248,864	436,864	183,660	68,100	185,104
1908	1,423,199	999,115	604,114	274,105	120,896	424,084	197,850	21,850	204,384
1909	1,681,621	1,015,207	653,356	52,787	309,065	666,413	322,181	42,625	301,607
1910	1,518,272	876,581	547,649	212,951	115,981	641,691	290,846	61,754	289,091
1911	1,739,488	1,099,206	670,815	326,948	101,443	640,282	322,094	67,590	250,598
1912	2,253,587	1,096,052	503,715	346,810	246,027	1,157,536	379,355	120,076	658,106
1913	1,645,736	953,933	414,081	398,861	141,491	691,803	225,190	156,245	310,368
1914	1,436,518	930,657	433,422	421,999	75,236	505,661	214,977	104,347	186,338
1915	1,435,351	780,217	541,351	216,515	22,351	655,135	241,839	110,919	302,378
1916	2,186,500	779,921	359,114	311,181	109,626	1,406,579	535,175	199,597	671,897
1917	1,529,970	520,752	173,902	308,100	38,750	1,009,219	349,395	244,121	415,703
1918	1,344,810	417,305	158,997	256,843	1,465	927,506	190,598	440,646	296,262
1919	3,021,171	432,615	247,250	182,435	2,930	2,588,556	441,885	552,994	1,593,678
1920	3,106,931	415,935	258,505	145,954	11,475	2,690,996	754,943	790,331	1,145,722
1921	2,634,869	747,999	650,932	62,480	34,587	1,886,870	1,164,978	302,066	419,825
1922	3,423,948	700,238	423,115	248,299	28,823	2,723,710	1,580,695	65,567	1,077,449
1923	3,601,438	602,921	285,427	349,730	57,764	2,998,517	1,556,975	178,963	1,172,579
1924	3,219,146	963,421	599,817	326,273	37,331	2,255,726	1,548,565	102,500	604,661
1925	3,642,012	474,229	332,113	142,116	-----	3,167,783	1,762,136	371,197	1,034,450
1926	3,643,646	360,744	267,738	83,562	9,449	3,282,902	2,053,176	426,927	802,799
1927	5,970,297	791,202	685,406	100,102	5,693	5,179,084	3,505,910	589,532	1,083,642
1928	7,191,173	668,489	410,600	29,500	228,389	6,522,684	2,620,570	274,119	3,627,995

Year	All classes of securities issued by—				Year	All classes of securities issued by—			
	Rail-roads	Public utilities <sup>2</sup>	Manu-facturing	Miscel-laneous		Rail-roads	Public utilities <sup>2</sup>	Manu-facturing	Miscel-laneous
1912	716,629	763,667	458,782	314,510	1921	644,780	743,640	583,798	662,650
1913	816,332	437,126	228,479	163,799	1922	673,713	864,668	566,927	1,318,640
1914	738,575	469,240	105,545	123,158	1923	658,457	1,199,405	696,511	1,047,036
1915	644,794	323,880	309,186	157,491	1924	914,283	1,190,681	643,228	470,955
1916	636,157	603,533	589,420	357,391	1925	432,011	1,533,365	1,009,055	667,581
1917	438,553	341,867	476,784	272,766	1926	360,744	1,667,751	847,629	737,520
1918	237,341	478,494	345,092	283,885	1927	791,202	2,405,295	1,087,272	1,686,515
1919	332,076	549,756	948,376	1,190,964	1928	668,489	2,427,790	2,311,351	1,783,543
1920	328,969	589,953	929,591	1,258,417					

<sup>1</sup> Tractions included with public utility and industrial beginning 1926.

<sup>2</sup> Including tractions.

## No. 330.—BROKERS' LOANS OUTSTANDING EACH MONTH, 1926 TO 1928

NOTE.—In millions of dollars. Figures cover net loans obtained by New York Stock Exchange members on collateral contracted for and carried in New York

End of—	Total			Demand loans			Time loans		
	1926	1927	1928	1926	1927	1928	1926	1927	1928
January	3,513	3,139	4,420	2,517	2,328	3,393	996	810	1,027
February	3,536	3,256	4,323	2,495	2,475	3,294	1,041	781	1,028
March	3,000	3,290	4,640	2,033	2,505	3,580	967	785	1,030
April	2,836	3,341	4,908	1,970	2,541	3,739	866	800	1,189
May	2,767	3,458	5,274	1,987	2,674	4,070	780	784	1,204
June	2,926	3,569	4,898	2,225	2,757	3,742	701	812	1,157
July	2,998	3,642	4,837	2,283	2,765	3,768	715	877	1,070
August	3,142	3,674	5,051	2,364	2,746	4,094	778	928	958
September	3,219	3,915	5,514	2,419	3,018	4,690	800	897	824
October	3,111	3,946	5,880	2,289	3,023	5,116	822	923	764
November	3,129	4,092	6,392	2,330	3,134	5,614	800	958	777
December	3,293	4,433	6,440	2,542	3,481	5,722	751	952	717

Sources Table 329, New York Journal of Commerce; Table 330, Federal Reserve Board.

## No. 331.—NEW YORK STOCK EXCHANGE TRANSACTIONS

Item	1920	1921	1922	1923	1924	1925	1926	1927	1928
Stocks (millions of shares).....	227	173	259	236	282	454	451	577	920
Bonds (millions of dollars).....									
Railway and miscellaneous.....	827	1,043	1,905	1,568	2,345	2,332	2,004	2,142	1,967
United States Government.....	2,861	1,957	1,873	796	877	301	202	290	183
State, municipal, and foreign.....	289	324	592	425	582	661	721	837	749

Source Commercial and Financial Chronicle.

## No. 332.—MOVEMENTS OF AVERAGE PRICES OF STOCKS AND BONDS ON THE NEW YORK STOCK EXCHANGE, BY YEARS

Year	Stocks (dollars per share)						Price index, 40 bonds (per cent of par) <sup>1</sup>	Bond yields municipal bonds (per cent) <sup>2</sup>
	25 industrials			25 railroads				
	High	Low	Average closing <sup>1</sup>	High	Low	Average closing <sup>1</sup>		
1913.....	67 08	50 27	58 19	91 41	75.92	82 97	-----	4. 45
1914.....	61 68	48 48	58 08	84.94	66.35	77 57	-----	4. 16
1915.....	106.97	51 85	75 35	82 84	64 40	73 16	76 76	4. 23
1916.....	119 30	86 60	99 14	85 70	74.83	80 05	80.49	4. 06
1917.....	99 74	62 81	85.44	81 22	52.06	69 12	75.58	4. 31
1918.....	91 55	71 31	80 98	70 75	56 95	61 34	69 84	4. 58
1919.....	138 12	80 37	105 77	68 78	54 48	62 06	69 07	4. 50
1920.....	129 83	78 55	107 21	63 55	48 86	55 94	59.70	5. 04
1921.....	90 60	66 24	79 38	63 00	47.59	53 21	60 15	5. 02
1922.....	116 24	79 86	98 68	70 53	52 57	62 38	74 11	4. 21
1923.....	118 41	99 05	107 78	67 05	54 61	60 15	71 72	4. 27
1924.....	135 11	103 26	115 08	81 41	57 80	67 18	74 82	4. 21
1925.....	185 86	128 83	152 65	95 29	73.50	82 48	77 04	4. 13
1926.....	186 03	137 65	165 70	102 60	81 61	93 27	80 86	4. 13
1927.....	247 48	171 49	214 54	124 22	99 34	113 81	83 69	3. 99
1928.....	332 58	233 42	268 92	132 80	112 84	122 06	84 06	4. 05

<sup>1</sup> Average of daily closing prices for these stocks<sup>2</sup> Computed from the yields on the average prices of the selected bonds for each day of the month, the average yield being capitalized at 4 per cent to give the combined index<sup>3</sup> Average market yield of bonds of 20 large cities at the end of each month since Jan. 31, 1917; previous figures are for the first of the month.

Sources Stock prices, The Analyst, bond price index, Dow, Jones &amp; Co; bond yields, the Bond Buyer.

## No. 333.—INDEXES OF VALUE OF SALES OF MAIL-ORDER HOUSES AND CHAIN STORES

NOTE.—1923-1925 average=100 Indexes for mail-order houses cover four companies throughout. The number of chain-store companies reporting varied from year to year, but in computing the indexes adjustment has been made for these variations. No adjustment has been made, however, to eliminate the influence of increase in the number of stores operated by the individual companies which accounts for a considerable part of the increase in the indexes. Sales are much affected by changes in price levels. For price index see Table 334

Year	Mail-order houses	Chain stores						
		Grocery	5-and-10-cent	Wearing apparel	Drug	Cigar	Shoe	Candy
1919.....	93	45	53	36	64	72	76	53
1920.....	96	66	64	52	78	96	91	73
1921.....	67	59	66	59	79	95	86	75
1922.....	73	69	74	64	82	93	86	77
1923.....	92	85	88	83	93	98	93	93
1924.....	98	97	99	98	98	100	101	101
1925.....	110	118	113	119	109	102	106	106
1926.....	115	143	125	149	128	111	113	114
1927.....	120	174	138	189	143	111	115	119
1928.....	137	208	150	225	166	107	125	125

Source. Federal Reserve Board

## No. 334.—INDEXES OF VALUE OF WHOLESALE SALES

NOTE.—1923-1925 average=100, except as to price index, which is the Department of Labor revised index 1926=100, see p. 327. Indexes of sales have been adjusted for variations in number of firms reporting and monthly indexes for seasonal variations. Sales are much affected by changes in price levels.

Year and month	Total sales, \$lines	Groceries	Meats	Dry goods	Men's clothing	Women's clothing	Boots and shoes	Hardware	Drugs	Furniture	General whole-sale price index
1919	110	118	145	100	78	93	140	96	91	-----	139
1920	114	126	121	107	106	95	125	116	95	-----	154
1921	87	93	80	91	72	84	99	80	86	73	98
1922	89	93	83	89	80	90	97	86	87	85	97
1923	101	100	94	103	99	109	104	102	97	102	101
1924	98	101	96	97	98	97	98	97	99	93	98
1925	101	99	110	100	103	94	98	101	104	105	104
1926	98	98	115	94	95	70	101	190	107	102	100
1927	95	94	108	89	92	68	104	95	108	100	95
January	94	93	113	83	84	77	112	92	104	98	97
February	95	93	112	87	97	75	110	93	103	98	96
March	96	95	108	90	101	67	97	98	103	101	95
April	93	95	111	86	87	68	94	94	106	96	94
May	95	97	109	87	87	69	110	91	104	98	94
June	93	98	104	88	90	65	90	92	106	102	94
July	95	91	102	88	90	79	134	92	105	102	94
August	100	97	109	102	101	72	111	97	112	109	95
September	96	94	109	91	92	66	104	99	114	103	97
October	91	90	109	86	81	54	91	94	111	99	97
November	95	94	105	89	86	67	105	100	112	100	97
December	93	92	109	87	93	61	101	97	106	89	97
1928	94	95	113	85	91	62	88	93	113	99	98
January	94	93	106	89	99	70	115	92	108	89	96
February	97	98	113	88	99	70	110	93	110	96	96
March	93	97	109	83	94	55	96	91	110	95	96
April	89	93	112	78	77	57	94	86	111	87	97
May	96	99	109	86	96	62	113	94	117	92	99
June	89	94	112	79	76	49	82	92	110	94	98
July	92	91	111	80	79	83	123	91	107	95	98
August	98	100	116	90	90	68	109	94	117	106	99
September	94	92	122	84	89	62	90	92	112	112	100
October	95	95	111	85	99	62	87	97	116	110	98
November	97	94	122	91	95	55	100	99	113	105	97
December	92	89	115	86	101	54	72	93	128	98	97

## No. 335.—INDEXES OF VALUES OF SALES BY DEPARTMENT STORES

By FEDERAL RESERVE DISTRICTS AND BY MONTHS

NOTE.—1923-1925 average=100. Index covers about 560 firms in recent years. See note, Table 334

Year	United States	Boston	New York	Philadelphia	Cleveland	Richmond	Atlanta	Chicago	St. Louis	Minneapolis	Kansas City <sup>1</sup>	Dallas	San Francisco
1919	78	78	76	79	77	84	94	-----	-----	93	-----	98	68
1920	94	91	91	93	98	93	113	-----	-----	105	-----	117	83
1921	87	89	87	89	86	89	96	82	90	97	-----	97	79
1922	88	92	89	91	87	86	90	85	89	93	-----	90	83
1923	98	98	96	101	100	97	100	98	99	99	-----	96	96
1924	99	100	99	99	99	99	98	98	98	99	95	100	99
1925	103	102	105	100	101	104	102	104	103	102	100	104	105
1926	106	105	109	102	103	107	106	111	105	99	95	109	110
1927	107	106	111	98	105	105	107	112	103	97	95	106	113
1928	108	104	112	95	103	106	107	121	104	87	97	108	116

Month	United States—unadjusted								United States—with seasonal adjustment							
	1922	1923	1924	1925	1926	1927	1928	1922	1923	1924	1925	1926	1927	1928	1927	1928
January	71	80	87	86	89	89	88	85	91	99	98	106	106	105	106	105
February	65	72	82	80	81	83	85	83	93	105	103	104	107	105	107	105
March	81	99	91	95	102	100	103	85	99	99	103	101	105	105	105	104
April	89	94	104	106	103	111	102	88	97	99	102	103	105	104	105	105
May	90	102	100	100	107	102	107	87	98	97	101	107	103	104	104	104
June	87	101	94	99	101	101	104	88	102	100	100	102	103	105	103	105
July	63	71	72	75	78	75	78	87	98	96	100	104	104	108	104	108
August	70	79	74	78	83	89	85	87	99	95	101	107	111	106	108	120
September	84	89	93	95	101	100	106	90	100	100	102	109	108	105	106	105
October	103	117	111	129	124	119	123	91	100	95	119	110	106	107	107	107
November	105	113	111	114	121	122	122	92	99	101	104	106	107	107	107	107
December	150	161	168	178	184	186	187	93	100	100	106	110	111	117	117	117

<sup>1</sup> Monthly average sales in 1925=100.

Source of Tables 334 and 335: Federal Reserve Board.

## No. 336.—COMMERCIAL FAILURES: NUMBER AND ASSETS AND LIABILITIES

Calendar year	Number of failures	Aggregate liabilities	Average liability	Calendar year	Total number of concerns in business	Number of failures	Aggregate assets	Aggregate liabilities	Average liability
		1,000 dollars	Dollars				1,000 dollars	1,000 dollars	Dollars
1857	4,932	291,750	59,155	1893	1,193,113	15,242		346,780	22,751
1858	4,225	95,749	22,662	1894	1,114,174	13,885		172,993	12,458
1859	3,913	64,394	16,456	1895	1,209,282	13,197	21,022	173,196	13,124
1860	3,676	79,807	21,710	1896	1,151,579	15,088	56,082	226,096	14,985
1861	6,993	207,210	29,631	1897	1,058,521	13,351	58,014	154,332	11,550
1862	1,652	23,049	13,952	1898	1,105,830	12,186	52,577	130,663	10,722
1863	495	7,899	15,958	1899	1,147,595	9,337	50,221	90,880	9,793
1864	520	8,579	16,498	1900	1,174,300	10,774	78,080	138,496	12,854
1865	530	17,625	33,255	1901	1,219,242	11,002	55,456	113,092	10,279
1866	1,505	53,783	35,736	1902	1,253,172	11,615	58,730	117,477	10,137
1867	2,780	96,666	34,772	1903	1,281,481	12,069	90,014	155,444	12,879
1868	2,608	63,094	24,423	1904	1,320,172	12,199	84,438	144,202	11,820
1869	2,799	75,054	26,815	1905	1,357,455	11,520	57,826	102,676	8,913
1870	3,546	88,242	24,885	1906	1,392,949	10,682	66,610	119,202	11,159
1871	2,915	85,252	29,246	1907	1,418,075	11,725	138,536	197,385	16,824
1872	4,069	121,056	29,751	1908	1,447,554	15,690	146,199	222,316	14,199
1873	5,183	228,499	44,086	1909	1,456,389	12,924	102,773	154,003	11,953
1874	5,830	155,239	26,628	1910	1,515,143	12,652	136,538	201,757	15,947
1875	7,740	201,060	25,977	1911	1,525,024	13,441	124,517	191,062	14,215
1876	9,092	191,118	21,020	1912	1,564,279	15,452	126,287	203,117	13,145
1877	8,872	190,670	21,491	1913	1,616,517	16,037	174,688	272,672	17,003
1878	10,478	234,383	22,369	1914	1,656,496	18,280	265,293	357,909	19,579
1879	11,658	98,149	14,741	1915	1,674,788	22,156	183,454	302,286	13,644
1880	4,735	95,352	13,886	1916	1,707,639	16,993	118,599	196,212	11,547
1881	5,582	81,156	14,530	1917	1,733,225	13,855	103,465	182,441	13,168
1882	6,738	101,548	15,070	1918	1,708,061	9,982	101,638	163,020	16,331
1883	9,184	172,874	18,323	1919	1,710,909	6,451	67,038	113,291	17,561
1884	10,968	226,343	20,632	1920	1,821,409	8,881	195,504	295,122	33,230
1885	10,637	134,220	11,678	1921	1,927,304	19,652	409,038	627,402	31,926
1886	9,834	114,644	11,651	1922	1,983,106	23,676	413,358	623,896	26,351
1887	9,634	167,561	17,391	1923	1,996,064	18,718	388,392	539,387	28,816
1888	10,679	123,830	12,559	1924	2,047,302	20,615	337,945	543,225	26,351
1889	10,882	148,784	13,692	1925	2,113,312	21,214	245,067	443,744	20,918
1890	10,907	189,857	17,406	1926	2,158,457	21,773	202,345	409,232	18,795
1891	12,273	189,869	15,471	1927	2,171,688	23,146	256,740	520,104	22,471
1892	10,344	114,044	11,025	1928	2,199,049	23,842	255,478	489,560	20,593

  

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Number of failures.												
1918	1,178	980	1,142	905	880	804	786	720	674	660	570	683
1919	673	602	629	543	531	485	452	468	473	463	551	581
1920	569	492	566	504	547	674	681	673	677	923	1,050	1,525
1921	1,895	1,641	1,336	1,487	1,356	1,320	1,444	1,502	1,466	1,713	1,988	2,444
1922	2,723	2,331	2,463	2,167	1,960	1,740	1,753	1,714	1,566	1,708	1,737	1,814
1923	2,126	1,508	1,682	1,520	1,530	1,358	1,231	1,319	1,228	1,673	1,704	1,841
1924	2,109	1,730	1,817	1,707	1,816	1,607	1,615	1,520	1,806	1,696	1,653	2,040
1925	2,317	1,793	1,859	1,939	1,767	1,745	1,685	1,513	1,465	1,581	1,672	1,878
1926	2,206	1,801	1,984	1,957	1,730	1,708	1,605	1,593	1,437	1,703	1,530	2,069
1927	2,405	2,037	2,143	1,968	1,852	1,833	1,756	1,708	1,673	1,787	1,864	2,162
1928	2,643	2,176	2,236	1,818	2,008	1,947	1,723	1,852	1,636	2,023	1,838	1,943
Liabilities (1,000 dollars)												
1918	19,279	12,829	17,672	14,272	13,135	10,607	9,790	7,985	17,407	13,980	13,815	12,249
1919	10,736	11,489	13,595	11,450	11,057	9,483	5,607	5,932	8,791	6,872	9,177	8,300
1920	7,240	9,783	12,690	13,224	10,826	32,991	21,906	28,373	29,554	33,915	30,758	33,872
1921	52,137	60,852	67,409	38,568	57,066	34,639	42,774	42,904	37,021	53,059	53,478	57,502
1922	73,796	72,008	71,608	73,059	44,403	38,242	40,010	40,280	36,908	34,647	40,265	58,069
1923	49,210	40,628	48,393	51,492	41,022	28,678	35,721	34,335	28,690	79,302	50,292	51,615
1924	51,273	35,942	37,651	48,904	36,591	34,099	36,813	55,154	34,296	26,099	31,124	45,279
1925	54,354	40,123	34,005	37,189	37,027	36,701	34,506	37,159	30,687	29,544	35,922	36,528
1926	43,651	34,176	30,628	38,487	33,543	29,408	29,680	28,130	29,903	33,231	32,694	45,620
1927	51,290	46,941	57,891	53,156	37,785	34,405	43,150	39,132	786	36,226	36,147	51,062
1928	17,634	45,071	54,814	37,980	36,117	20,827	29,587	58,202	33,957	34,990	40,601	40,774

## No. 337.—COMMERCIAL FAILURES: BY STATES

[Assets and liabilities in thousands of dollars]

Division and State	Number of concerns in business		Number of failures		Per cent of failures		Assets		Liabilities	
	1927	1928	1927	1928	1927	1928	1927	1928	1927	1928
<b>United States.....</b>	<b>12,171,688</b>	<b>12,199,049</b>	<b>23,146</b>	<b>23,842</b>	<b>1 07</b>	<b>1 08</b>	<b>256,740</b>	<b>255,478</b>	<b>520,104</b>	<b>489,560</b>
<b>New England.....</b>	<b>166,043</b>	<b>166,179</b>	<b>2,465</b>	<b>2,555</b>	<b>1 48</b>	<b>1 54</b>	<b>20,974</b>	<b>16,741</b>	<b>55,075</b>	<b>48,521</b>
Maine.....	18,174	17,827	197	210	1 03	1 18	739	1,138	1,905	2,605
New Hampshire.....	10,705	10,945	96	83	.90	.76	391	666	960	1,299
Vermont.....	7,719	7,659	50	60	.65	.78	171	365	392	804
Massachusetts.....	87,730	86,882	1,394	1,454	1 58	1 67	12,201	8,908	37,779	33,235
Rhode Island.....	12,139	12,470	211	219	1 74	1 76	578	672	1,835	1,980
Connecticut.....	29,576	30,396	527	529	1 78	1 74	6,894	4,900	12,153	8,509
<b>Middle Atlantic.....</b>	<b>556,045</b>	<b>565,849</b>	<b>5,167</b>	<b>6,349</b>	<b>93</b>	<b>1 12</b>	<b>75,563</b>	<b>71,098</b>	<b>158,560</b>	<b>157,105</b>
New York.....	282,008	288,309	3,248	3,832	1 15	1 33	49,057	41,065	97,933	95,194
New Jersey.....	82,578	84,688	777	1,024	.94	1 21	11,747	14,628	23,381	29,150
Pennsylvania.....	191,459	192,852	1,142	1,493	.60	.77	14,758	15,405	35,246	32,761
<b>East North Central.....</b>	<b>463,435</b>	<b>465,053</b>	<b>4,550</b>	<b>4,606</b>	<b>98</b>	<b>.99</b>	<b>54,497</b>	<b>71,444</b>	<b>100,545</b>	<b>111,124</b>
Ohio.....	120,635	121,261	1,251	1,274	1 04	1 05	22,021	24,044	34,457	34,832
Indiana.....	62,978	61,274	610	530	.97	.86	7,746	8,030	16,164	14,481
Illinois.....	140,635	143,379	1,356	1,497	.96	1 04	14,274	19,369	31,105	35,739
Michigan.....	80,010	80,369	795	732	.99	.91	5,635	13,627	10,373	17,451
Wisconsin.....	59,177	58,770	538	573	.91	.97	4,820	6,375	8,447	8,621
<b>West North Central.....</b>	<b>244,111</b>	<b>252,145</b>	<b>2,379</b>	<b>2,100</b>	<b>.97</b>	<b>.83</b>	<b>23,655</b>	<b>16,948</b>	<b>43,660</b>	<b>32,404</b>
Minnesota.....	45,859	45,558	760	638	1 66	1 40	3,385	2,432	8,855	5,483
Iowa.....	44,245	45,184	303	283	.70	.63	2,025	2,441	4,318	3,839
Missouri.....	74,417	72,077	718	678	.96	.94	14,178	7,611	22,993	16,946
North Dakota.....	11,069	12,193	69	41	.62	.34	655	342	1,261	566
South Dakota.....	12,091	12,901	76	43	.63	.35	595	273	1,177	459
Nebraska.....	20,667	27,991	248	220	1 20	.79	1,428	816	2,632	1,684
Kansas.....	35,763	36,841	200	197	.56	.53	1,388	2,303	2,455	3,427
<b>South Atlantic.....</b>	<b>220,095</b>	<b>217,968</b>	<b>2,545</b>	<b>2,353</b>	<b>1 16</b>	<b>1 08</b>	<b>36,628</b>	<b>36,772</b>	<b>67,837</b>	<b>57,023</b>
Delaware.....	5,030	5,815	26	35	.52	.66	328	326	2,801	473
Maryland.....	32,485	36,248	384	372	1 18	1 03	7,799	4,016	13,454	6,171
Dist. of Columbia.....	9,492	9,885	128	126	1 35	1 27	2,108	3,033	3,786	5,137
Virginia.....	34,481	32,262	338	260	1 04	.81	2,098	2,097	5,079	4,170
West Virginia.....	25,587	25,878	303	337	1 17	1 30	5,805	5,105	8,106	8,264
North Carolina.....	34,678	34,677	325	310	.94	.89	6,133	5,647	9,905	7,033
South Carolina.....	16,048	16,099	157	126	.98	.78	1,517	2,747	3,174	3,395
Georgia.....	29,678	30,473	303	342	1 04	1 12	3,885	3,468	6,811	5,684
Florida.....	34,416	27,061	576	445	1 67	1 64	7,047	10,434	14,721	16,695
<b>East South Central.....</b>	<b>114,651</b>	<b>115,906</b>	<b>1,010</b>	<b>964</b>	<b>.88</b>	<b>.83</b>	<b>10,641</b>	<b>9,544</b>	<b>18,947</b>	<b>13,966</b>
Kentucky.....	36,851	37,555	220	250	.60	.67	2,042	2,803	4,972	3,959
Tennessee.....	31,445	31,525	317	335	1 01	1 06	5,533	3,798	7,723	5,450
Alabama.....	26,157	26,506	286	248	1 09	.94	1,866	2,176	3,925	2,811
Mississippi.....	20,198	20,322	187	131	.93	.64	1,201	767	2,327	1,776
<b>West South Central.....</b>	<b>169,591</b>	<b>173,373</b>	<b>1,477</b>	<b>1,310</b>	<b>.87</b>	<b>.76</b>	<b>11,513</b>	<b>14,632</b>	<b>24,859</b>	<b>24,796</b>
Arkansas.....	24,534	24,423	297	329	1 21	1 35	2,780	6,595	5,476	7,864
Louisiana.....	25,072	26,484	123	101	.49	.38	1,118	828	2,539	2,071
Oklahoma.....	37,750	39,496	393	343	1 04	.87	2,503	2,863	4,484	3,732
Texas.....	81,335	82,970	659	537	.81	.65	5,107	4,546	12,361	11,129
<b>Mountain.....</b>	<b>58,152</b>	<b>60,067</b>	<b>617</b>	<b>584</b>	<b>1 06</b>	<b>.97</b>	<b>5,417</b>	<b>3,506</b>	<b>7,903</b>	<b>6,855</b>
Montana.....	9,387	9,594	125	102	1 33	1 06	534	427	974	909
Idaho.....	7,269	7,267	76	72	1 05	.99	599	343	596	1,149
Wyoming.....	4,033	4,352	49	33	1 21	.76	219	356	403	477
Colorado.....	19,283	19,481	162	205	.84	1 05	2,334	1,364	3,202	2,472
New Mexico.....	4,708	5,314	27	32	.57	.60	650	167	1,095	359
Arizona.....	4,942	5,284	25	17	.51	.32	250	156	377	361
Utah.....	6,850	6,994	137	103	2 00	1 47	794	557	1,168	915
Nevada.....	1,680	1,781	16	20	.95	1 12	36	104	87	212
<b>Pacific.....</b>	<b>171,670</b>	<b>170,876</b>	<b>2,936</b>	<b>3,021</b>	<b>1 71</b>	<b>1 77</b>	<b>17,852</b>	<b>15,494</b>	<b>44,689</b>	<b>37,787</b>
Washington.....	34,170	34,580	605	584	1 77	1 69	3,735	3,614	10,069	7,641
Oregon.....	21,619	22,537	540	484	2 50	2 15	3,504	3,477	8,123	7,862
California.....	115,881	113,759	1,791	1,953	1 55	1 72	10,610	8,403	26,477	22,834

<sup>1</sup> Total includes net changes reported by supplemental telegraphic reports, amounting to 7,895 in 1927 and 11,731 in 1928, not distributed by States.

Source: Dun's Review, New York, N. Y.

## No. 338.—FAILURES IN MANUFACTURING, TRADING, AND OTHER COMMERCIAL BUSINESS, AND BANK FAILURES: BY STATES, 1928

[Liabilities in thousands of dollars]

Division and State	Manufacturing		Trading		Agents, brokers, etc.		Bank failures	
	Number	Liabilities	Number	Liabilities	Number	Liabilities	Number	Liabilities
United States.....	5,924	182,478	16,477	225,301	1,441	81,780	372	129,650
New England.....	951	23,784	1,401	17,088	203	7,649	2	1,125
Maine.....	53	601	136	1,411	21	684	—	—
New Hampshire.....	23	342	57	931	3	26	—	—
Vermont.....	20	295	34	479	6	30	—	—
Massachusetts.....	629	17,391	687	9,533	138	6,312	1	200
Rhode Island.....	61	811	148	1,071	10	98	1	925
Connecticut.....	165	4,244	339	3,664	25	501	—	—
Middle Atlantic.....	1,805	68,548	4,171	67,916	373	22,643	4	2,165
New York.....	1,124	38,420	2,477	39,366	231	17,408	4	2,165
New Jersey.....	337	15,161	596	10,325	91	3,604	—	—
Pennsylvania.....	344	12,965	1,098	18,225	51	1,571	—	—
East North Central.....	1,125	39,949	3,211	46,524	270	24,651	35	12,214
Ohio.....	319	16,162	888	15,214	67	3,457	6	3,820
Indiana.....	112	6,552	390	6,032	28	1,896	19	5,982
Illinois.....	346	11,215	1,071	15,099	80	9,425	9	1,512
Michigan.....	155	2,645	526	6,125	51	8,682	—	—
Wisconsin.....	193	3,376	336	4,054	44	1,182	1	900
West North Central.....	363	8,229	1,616	15,774	121	8,400	200	47,609
Minnesota.....	153	1,438	433	3,662	52	384	32	5,009
Iowa.....	39	1,097	239	2,513	5	230	35	11,502
Missouri.....	122	4,965	525	5,210	31	6,771	32	5,861
North Dakota.....	3	69	37	494	1	4	30	5,872
South Dakota.....	2	4	39	434	2	21	4	1,520
Nebraska.....	25	156	174	1,818	21	210	47	13,846
Kansas.....	10	501	169	2,145	9	782	20	3,999
South Atlantic.....	398	18,727	1,897	30,440	118	7,856	76	43,009
Delaware.....	—	—	34	469	1	4	1	250
Maryland.....	79	2,363	267	3,253	26	556	—	—
District of Columbia.....	27	754	81	743	18	3,640	—	—
Virginia.....	47	2,098	202	1,947	11	125	2	237
West Virginia.....	51	3,094	277	4,507	9	663	2	676
North Carolina.....	30	2,523	270	4,382	10	128	5	2,168
South Carolina.....	9	1,236	114	2,115	8	44	18	4,350
Georgia.....	41	1,055	289	3,853	12	773	17	14,134
Florida.....	54	5,602	363	9,172	28	1,922	31	21,194
East South Central.....	146	4,117	790	9,386	28	493	9	7,233
Kentucky.....	53	1,598	193	1,940	4	120	4	1,433
Tennessee.....	50	1,139	274	4,154	11	157	2	4,461
Alabama.....	38	961	200	1,805	10	45	—	—
Mississippi.....	6	118	123	1,487	3	171	3	1,339
West South Central.....	118	5,108	1,154	18,466	38	1,221	30	9,501
Arkansas.....	46	3,016	273	4,553	10	296	16	4,468
Louisiana.....	10	167	89	1,899	2	6	1	175
Oklahoma.....	20	299	309	3,353	14	79	5	815
Texas.....	42	1,627	483	8,661	12	840	8	4,044
Mountain.....	83	2,044	471	4,357	30	453	9	3,026
Montana.....	16	185	79	718	7	6	1	45
Idaho.....	10	738	62	411	—	—	2	445
Wyoming.....	4	110	24	150	5	218	1	209
Colorado.....	27	600	169	1,723	9	150	2	886
New Mexico.....	3	17	26	337	3	6	—	—
Arizona.....	1	118	15	214	1	29	—	—
Utah.....	20	254	81	649	2	11	3	1,450
Nevada.....	2	22	15	155	3	35	—	—
Pacific.....	995	13,973	1,766	15,350	260	8,413	7	3,768
Washington.....	169	3,598	372	3,221	43	721	3	1,000
Oregon.....	180	3,113	257	2,140	47	2,609	3	2,318
California.....	646	7,262	1,137	9,990	170	5,083	1	450

## No. 339.—FAILURES, BY BRANCHES OF BUSINESS

NOTE.—Machinery, vehicles, etc., includes shipbuilding; lumber includes furniture; clothing includes furnishings, glass, etc., includes pottery, lime, cement, and stone. In the trading group, groceries include creameries; hotels include lodging houses and caterers; dry goods includes department stores, furniture includes glass and glassware. Agents, brokers, etc., include real estate, insurance, storage, express, harbor lines, etc.

	Number				Aggregate liabilities (in thousands of dollars)				Average liability, 1926 (dollars)
	1925	1926	1927	1928	1925	1926	1927	1928	
<b>Total commercial</b> .....	21,214	21,773	23,146	23,842	443,744	409,232	520,104	489,560	20,533
<b>Total manufacturing</b> .....	5,090	5,395	5,632	5,924	167,685	158,042	211,505	182,478	30,803
Iron, foundries, and machine shops.....	57	80	120	119	2,209	5,806	18,126	5,183	43,564
Machinery, vehicles, etc.....	412	312	254	325	18,319	19,949	12,953	11,567	35,590
Woolens, carpets, and knit goods.....	70	48	36	28	4,866	3,193	1,537	3,291	117,538
Cottons, lace, and hosiery.....	10	21	20	15	784	5,145	4,816	1,847	123,131
Lumber, carpenters and coopers.....	466	644	850	969	20,834	21,218	43,986	50,782	52,407
Clothing and millinery.....	624	585	494	557	10,772	11,440	12,551	10,337	18,559
Hats, gloves, and furs.....	85	121	153	193	1,964	2,278	2,491	3,201	16,588
Chemicals and drugs.....	78	61	64	85	3,411	1,429	3,712	3,655	42,998
Paints and oils.....	23	17	11	13	309	537	262	273	20,967
Printing and engraving.....	198	230	264	172	3,910	3,490	7,613	3,605	20,957
Milling and bakers.....	518	500	461	494	4,529	5,081	5,012	7,009	14,188
Leather, shoes, and harness.....	163	133	140	155	5,021	4,029	7,870	6,543	42,211
Tobacco, etc.....	89	89	104	75	4,336	3,912	4,288	980	13,063
Glass, earthenware, and brick.....	65	65	91	94	4,840	2,119	8,400	2,625	27,921
All other.....	2,232	2,489	2,620	2,630	81,582	68,375	77,890	71,582	27,217
<b>Total trading</b> .....	15,161	15,388	16,082	16,477	215,369	201,334	228,194	225,301	13,674
General stores.....	1,305	1,217	1,214	1,042	20,008	17,396	18,740	13,388	12,848
Groceries, meat, and fish.....	3,355	3,433	3,543	3,785	29,757	29,637	29,307	30,504	8,059
Hotels and restaurants.....	1,072	828	1,046	1,105	12,494	13,869	18,242	24,362	22,047
Tobacco, etc.....	328	277	232	263	2,884	2,473	1,704	1,877	7,137
Clothing and furnishings.....	2,118	2,058	2,157	2,324	33,151	24,708	28,524	27,892	12,002
Dry goods and carpets.....	1,035	1,021	1,187	1,121	21,616	19,405	22,090	17,770	15,852
Shoes, rubbers, and trunks.....	732	597	729	681	8,221	6,453	8,683	7,064	10,372
Furniture and crockery.....	631	606	686	667	10,744	11,774	11,598	12,202	18,295
Hardware, stoves, and tools.....	413	430	465	507	8,458	7,251	7,559	8,337	16,444
Chemicals and drugs.....	495	632	714	729	5,078	6,335	7,008	7,088	9,723
Paints and oils.....	72	83	85	84	928	958	932	791	9,417
Jewelry and clocks.....	445	406	420	473	8,357	7,168	7,592	8,155	17,248
Books and papers.....	112	121	142	144	1,418	2,432	2,661	1,651	11,462
Hats, furs, and gloves.....	114	91	62	143	1,711	1,081	1,592	2,167	14,039
All other.....	2,934	3,168	3,370	3,404	50,565	50,444	61,367	62,051	18,229
<b>Agents, brokers, etc.</b> .....	963	1,110	1,382	1,441	60,691	49,856	80,405	81,780	56,752
<b>Bank failures</b> .....	494	608	394	372	164,699	212,075	143,449	129,650	348,520

Year	Number of failures					Liabilities (in thousands of dollars)				
	Commercial				Banks	Commercial				Banks
	Total	Manu- factur- ing	Trad- ing	Agents, brok- ers, etc		Total	Manu- factur- ing	Trading	Agents, brok- ers, etc	
1911.....	13,441	3,502	9,480	459	107	191,062	87,372	84,240	19,450	25,512
1912.....	15,452	3,839	11,011	602	79	203,117	86,720	91,780	24,618	24,220
1913.....	16,037	4,243	11,145	649	120	272,672	123,123	115,115	34,435	31,546
1914.....	18,280	4,620	12,851	809	212	357,909	135,636	165,865	56,408	56,005
1915.....	22,156	5,116	16,030	1,010	133	302,286	112,026	150,234	40,026	37,223
1916.....	16,993	4,196	11,923	874	50	196,212	73,000	91,374	31,839	10,397
1917.....	13,855	3,691	9,430	734	42	182,441	79,544	70,117	32,781	18,452
1918.....	9,982	2,766	6,494	722	20	163,020	73,382	57,911	31,727	5,132
1919.....	6,451	1,805	4,013	573	50	113,291	51,614	37,670	24,007	16,521
1920.....	8,881	2,635	5,332	714	119	295,122	127,992	88,558	78,571	50,708
1921.....	19,652	4,495	13,999	1,158	404	627,402	232,907	254,794	139,700	173,028
1922.....	23,676	5,682	16,923	1,071	277	623,896	214,925	271,388	137,583	77,736
1923.....	18,718	4,968	13,064	686	578	539,387	281,316	209,930	48,140	203,739
1924.....	20,615	5,208	14,393	1,014	613	543,225	286,770	203,190	53,265	202,028

## 14. PRICES

GENERAL NOTE—The wholesale price index of the Department of Labor is based on primary market quotations of 530 commodities. In weighting the prices included in the index, the biennial census reports of 1923 and 1925 have been used for most manufactured products and for other products the average for the years 1923 to 1925 where trustworthy information was available as in the case of agricultural products.

The retail food index is based on the weighted average quotations (weighted by average family consumption in 1918) as of the 15th of the month, secured from retail stores in 51 cities since 1920 and from a smaller number in earlier years, for 22 commodities to 1920 and for 43 commodities in 1921 and subsequent years.

The farm price index is constructed by weighting prices paid to producers for 30 products. Average quotations for the period, August, 1909–July, 1914, are used as a base, and each price series is weighted by the average annual marketings of farmers in the years 1918 to 1923.

### No. 340.—WHOLESALE, RETAIL, AND FARM PRICES: INDEX NUMBERS

Year	Yearly average	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1926 average=100													
Wholesale prices—													
1916-----	85.5	77.0	78.5	80.4	81.7	82.5	82.9	83.4	85.1	86.9	91.1	97.4	99.2
1917-----	117.5	102.1	104.5	107.7	114.1	120.7	122.0	123.0	124.8	123.5	122.2	122.8	122.9
1918-----	131.3	125.0	122.7	126.4	128.3	128.1	129.0	132.0	134.3	137.5	136.3	136.3	136.3
1919-----	138.6	134.4	129.8	131.3	133.0	135.3	135.6	141.1	144.3	141.1	141.6	144.5	150.5
1920-----	154.4	157.7	157.1	158.6	165.5	167.2	166.5	165.8	161.4	155.2	144.2	133.4	120.7
1921-----	97.6	114.0	104.9	102.4	98.9	96.2	93.4	93.4	93.5	93.4	94.1	94.2	92.9
1922-----	96.7	91.4	92.9	92.8	93.2	96.1	96.3	99.4	98.6	98.3	99.6	100.5	100.7
1923-----	100.6	102.0	103.3	104.5	103.9	101.9	100.3	98.4	97.8	99.7	99.4	98.4	98.1
1924-----	98.1	99.6	99.7	98.5	97.3	95.0	94.9	95.6	97.0	97.1	98.2	99.1	101.5
1925-----	103.5	102.9	104.0	100.4	101.9	101.6	103.0	104.3	103.9	103.4	103.6	104.5	103.4
1926-----	100.0	103.6	102.1	100.2	100.1	100.5	100.5	99.5	99.0	99.7	99.4	98.4	97.9
1927-----	95.4	96.6	95.9	94.5	93.7	93.7	93.8	94.1	95.2	96.5	97.0	96.7	96.8
1928-----	97.7	96.3	96.4	96.0	97.4	98.6	97.6	98.3	98.9	100.1	97.8	96.7	96.7
1913 average=100													
Retail food prices.													
1916-----	113.7	107	106	107	109	109	112	111	113	118	121	126	126
1917-----	146.4	128	133	133	145	151	152	146	149	153	157	155	157
1918-----	168.3	160	161	154	154	158	162	168	171	178	181	183	187
1919-----	185.9	185	172	175	182	185	184	190	192	188	189	192	197
1920-----	203.4	201	200	200	211	215	219	219	207	204	198	193	178
1921-----	153.3	172	158	156	152	145	144	148	155	153	153	152	150
1922-----	141.6	142	142	139	139	139	141	142	139	140	143	145	147
1923-----	146.2	144.4	142.3	141.9	143.1	143.4	144.3	147.2	146.4	149.3	149.8	151.1	150.3
1924-----	145.9	149.1	147.3	143.7	141.3	141.0	142.4	143.3	144.2	146.8	148.7	150.1	151.5
1925-----	137.4	154.3	151.4	151.1	150.8	151.6	155.0	159.9	160.4	159.0	161.6	167.1	165.5
1926-----	160.6	164.3	161.5	159.9	162.4	161.1	159.7	157.0	155.7	158.5	160.0	161.6	161.8
1927-----	155.4	159.3	156.0	153.8	153.6	155.4	158.5	153.4	152.4	154.0	156.1	156.5	155.9
1928-----	154.3	155.1	151.6	151.4	152.1	153.3	152.6	152.8	154.2	157.8	156.8	157.3	155.8
August, 1909–July, 1914=100													
Farm prices.													
1916-----	117	104	106	108	110	111	112	113	117	123	128	137	139
1917-----	176	140	148	159	176	188	188	185	183	184	187	187	191
1918-----	200	194	197	199	200	198	196	197	203	207	204	200	201
1919-----	209	200	194	197	207	215	216	222	222	208	206	209	212
1920-----	205	219	221	222	230	233	234	224	209	194	178	158	140
1921-----	116	135	128	123	115	112	110	111	116	118	120	116	115
1922-----	124	114	118	123	123	127	128	126	120	119	123	126	131
1923-----	135	134	136	136	137	135	133	130	128	132	134	136	137
1924-----	134	137	136	131	130	129	130	132	139	132	133	137	139
1925-----	147	146	146	151	147	146	148	149	152	144	143	144	143
1926-----	136	143	143	140	140	139	139	136	133	134	130	130	127
1927-----	131	126	127	126	125	126	130	130	132	140	139	137	137
1928-----	139	137	135	137	140	148	145	145	139	141	137	134	134

Sources—Wholesale and retail prices, Department of Labor; farm prices, Department of Agriculture



# NO. 341.—WHOLESALE PRICES BY MAJOR COMMODITY GROUPS: INDEX NUMBERS

NOTE.—For explanation of these indexes see general note, page 323. For indexes for all commodities for prior years see Table 342

[1926=100, except as noted]

Period	All commodities	Farm products	Foods	Hides and leather products	Textile products	Fuel and lighting	Metals and metal products	Building materials	Chemicals and drugs	House furnishing goods	Miscellaneous
1890-----	56 2	50 4	55.5	47 5	57 8	38 1	105 3	46 5	73 2	49.9	97 9
1891-----	55 8	54 2	54 8	47 9	54 6	37 0	92 2	44 2	74 0	50 4	94 3
1892-----	52 2	49 5	51 0	47.2	55 2	34 8	84 0	41 7	74 6	48.1	86.6
1893-----	53 4	51 3	54 7	45 1	54 1	35 3	76 8	41 6	72 7	48 1	89 0
1894-----	47 9	44 6	48.2	43 0	46 1	34 3	65 7	39 8	65 5	45 3	86 4
1895-----	48 8	43 9	47 3	49 4	44 3	40 3	70 4	38 8	64 7	43.5	88 9
1896-----	46.5	39 6	44 1	45 2	43 1	39 5	71 2	38 9	65 0	43 4	90 2
1897-----	46.6	42.5	45 5	45 9	42 9	33 9	65 0	37 4	70 9	42 5	92 5
1898-----	48 5	44 9	47 8	48 3	44 9	34 5	65 3	39 6	77 4	44 0	93 4
1899-----	52.2	45 8	47 7	49.4	47 7	41.2	100 0	43 6	81 1	45 0	97 4
1900-----	56 1	50 5	50 8	49.4	53 3	46 3	93 0	46 2	82 1	48.9	102 0
1901-----	55 3	52 8	50.5	48 9	48 1	44 6	93 1	44 3	84 2	48 9	93 4
1902-----	58 9	58 4	53 3	50 8	49 4	51.8	91 0	45 3	86 5	49.2	88.1
1903-----	59 6	58 5	52 0	49 9	52 8	60 3	90 2	46 7	84 1	50 9	98 9
1904-----	59 7	58 5	54 0	49 7	52 9	53 3	79 9	45 0	84 1	50 3	106 5
1905-----	60 1	56 4	55 1	53 9	54 1	49 6	89 1	48 1	82 3	49 7	117 4
1906-----	61.8	57 3	53 4	57.7	58 7	52 0	102 4	54 0	76 8	51 3	115 3
1907-----	65.2	62 2	57 0	58.0	63 5	54 4	109 8	56 8	78 5	55 0	108 2
1908-----	62 9	62 2	58 7	55.6	54 8	53 7	86 3	52 0	79 6	51 6	97 8
1909-----	67 6	69.6	62 6	61.5	56 5	51.6	84 5	53 7	79 9	51.7	129 6
1910-----	70 4	74 3	64 9	60.2	58.4	47.6	85 2	55 3	82 0	54 0	152 7
1911-----	64 9	66 8	62 0	58 8	55 5	46 7	80 8	55 3	81 6	52.7	108 6
1912-----	69 1	72 0	66 8	64 5	55 7	51 4	89 5	55 9	80 7	53 0	106 4
1913-----	69 8	71 5	64 2	68 1	57 3	61 3	90 8	56 7	80 2	56 3	93.1
1914-----	68 1	71 2	64 7	70 9	54 6	56 6	80 2	52 7	81 4	56 8	98 9
1915-----	69 5	71 5	65 4	75 5	54 1	51 8	86 3	53 5	112 0	56.0	86 9
1916-----	85 5	84 4	75 7	93 4	70 4	74 3	116 5	67 6	160 7	61.4	100 6
1917-----	117 5	129 0	104 5	123 8	98 7	105 4	150 6	88 2	165 0	74.2	122.1
1918-----	131 3	148 0	119 1	125 7	137 2	109 2	136 5	98 6	182 3	93 3	134 4
1919-----	138 6	157 6	120 5	174.1	135 3	104 3	130 9	115 6	157.0	105.9	139.1
1920-----	154 4	150 7	137 4	171 3	164 8	163 7	149 4	150 1	164 7	141.8	167 5
1921-----	97 6	88 4	90 6	109 2	94 5	96 8	117 5	97 4	115 0	113 0	109.2
1922-----	96 7	93 8	87 6	104 6	100 2	107 3	102 9	97 3	100 3	103 5	92 8
1923-----	100 6	98 6	92 7	104 2	111 3	97 3	109 3	108 7	101 1	108 9	99 7
1924-----	98 1	100 0	91 0	101 5	108 7	92 0	106 3	102 3	98 9	104 9	93 6
1925-----	103 5	100 8	100 2	105 3	108 3	96 5	103 2	101 7	101 8	103.1	109 0
1926-----	100 0	100 0	100 0	100 0	100 0	100 0	100 0	100 0	100 0	100 0	100 0
1927-----	95 4	99 4	96 5	107 9	95 7	86 5	98 2	93 3	96 6	98 2	89 9
1928-----	97.7	105 9	101 0	121 7	96 3	82 8	99 8	93.7	95.5	97.4	83.0
1928 (1919=100)-----	140 0	148 1	157 3	178 7	168 1	135 1	109 9	165 3	119 1	173 0	80 2
1928 (1923-1925=100)-----	97.0	103 0	106 8	117 4	88 5	86 9	93 9	89 9	94.9	92 2	82.3
1926											
January-March-----	102 0	104 7	100 7	101 6	104 8	98 6	99 6	101.7	100 9	101.1	110 7
April-June-----	100 4	102 0	100 3	98 8	100 3	99 8	98 7	99 3	100 3	100 3	102.5
July-September-----	99 4	98 4	98 7	99 2	98 6	100 5	101 0	99 5	100 1	99.7	95 7
October-December-----	98 6	95 8	100 7	100 6	96 4	101.1	100.7	99 6	98.8	99.1	91.4
1927											
January-December-----	95 7	95 4	95 8	100 6	94 3	94 5	98 3	96 3	97 4	97.9	90 6
April-June-----	93 7	95 7	94 5	104 2	94 1	84 3	98 2	94 9	96 3	97.9	90 9
July-September-----	95 3	101 9	94 9	112 0	96 3	84 2	97 8	92 9	95 7	98.4	89 5
October-December-----	96 8	104 6	101 0	114 7	97 7	83.1	97 5	90 7	97.2	98.7	88.5
1928											
January-----	96 3	106 1	98.5	121 0	96 7	80.8	98 1	90 8	96 3	98.6	89 0
February-----	96 4	104 5	98 7	124 1	96 6	81 2	98 3	91 0	95 8	98.4	87 3
March-----	96 0	103.5	98 0	124.0	96 5	80 8	98 4	91 0	95 6	98.3	86 8
April-----	97.4	107 6	99 5	126 7	96 5	80 8	98 4	92 5	95 8	97 9	84.9
May-----	98 6	109 8	101 2	126 3	96 6	81.8	98 6	93 5	95 3	97 8	85 1
June-----	97 6	106 7	100 3	124 2	96 3	82 1	98 7	93 9	94 9	97 0	82 2
July-----	98 3	107 1	102 3	121 0	96 3	82 8	98 6	94 4	94 5	96 9	80 8
August-----	98 9	107 0	104 1	121 0	96 3	84 6	100 4	94 6	94 7	97 2	79 3
September-----	100 1	108 8	106 9	120 7	96 3	85 1	100 5	94 7	95 1	97 2	79 7
October-----	97 8	103 5	102 3	117 5	96 1	84 9	101 0	95 0	95 6	96 5	80 3
November-----	96 7	101 6	100 1	115 5	96 1	84 4	101 7	96 0	96 0	96 4	80 0
December-----	96 7	103.6	98.0	115 7	96 1	83.5	102 9	96 8	96.1	96.4	80.1

Source Bureau of Labor Statistics, Department of Labor.

## No. 342.—WHOLESALE PRICES: INDEX NUMBERS, 1860 TO 1889

NOTE.—Indexes are arithmetic averages of unweighted relative prices, published in 1893 by the Committee on Finance, United States Senate, on an 1860 base, recomputed to the 1913 base by the Bureau of Labor Statistics, Department of Labor, and later to a 1926 base by Division of Statistical Research, Bureau of Foreign and Domestic Commerce

[1926=100]

Year	General index	Year	General index	Year	General index
1860.....	58	1870.....	83	1880.....	62
1861.....	58	1871.....	79	1881.....	62
1862.....	68	1872.....	81	1882.....	63
1863.....	86	1873.....	80	1883.....	62
1864.....	111	1874.....	77	1884.....	58
1865.....	126	1875.....	74	1885.....	54
1866.....	111	1876.....	69	1886.....	54
1867.....	100	1877.....	64	1887.....	54
1868.....	94	1878.....	59	1888.....	55
1869.....	89	1879.....	56	1889.....	55

## No. 343.—WHOLESALE PRICES OF COMMODITY SUBGROUPS: INDEX NUMBERS

[1926=100]

Subgroup	Year								December, 1927	June, 1928	December, 1928
	1923-1925	1922	1923	1924	1925	1926	1927	1928			
Grains.....	102 3	85 0	88 0	100 6	118 3	100 0	100 9	107 3	102 0	119 9	94 3
Livestock and poultry.....	85 3	83 2	77 7	79 3	98 9	100 0	98 9	105 4	97 9	104 7	99 1
Other farm products.....	115 1	103 4	116 7	114 2	114 5	100 0	99 2	105 8	109 7	103 4	110 0
Meats.....	81 7	76 6	76 2	75 7	93 3	100 0	92 7	107 0	99 6	104 0	102 3
Butter, cheese, milk.....	99 7	91 4	103 4	94 5	101 1	100 0	104 0	105 6	110 0	99 8	110 0
Other foods.....	101 4	93 6	99 6	100 0	104 5	100 0	96 2	95 5	97 7	98 1	90 8
Hides and skins.....	115 5	115 8	117 6	110 2	118 7	100 0	120 4	148 6	136 4	155 0	131 0
Leather.....	102 9	105 2	104 1	99 8	104 8	100 0	109 2	126 3	122 4	127 3	119 3
Boots and shoes.....	99 3	98 1	99 1	98 4	100 5	100 0	102 5	109 9	107 1	110 8	103 4
Other leather products.....	103 4	113 5	103 7	103 7	102 8	100 0	104 1	108 5	109 4	108 4	108 4
Cotton goods.....	113 9	104 3	116 9	114 7	110 0	100 0	97 9	101 2	103 3	101 1	101 3
Silk and rayon.....	112 4	121 0	129 5	103 1	104 5	100 0	88 1	83 6	83 2	82 6	83 7
Woolen and worsted goods.....	108 2	95 7	107 5	106 8	110 2	100 0	97 6	100 4	98 4	101 2	100 0
Other textile products.....	89 5	70 8	77 4	87 1	104 1	100 0	95 4	86 9	96 7	85 9	84 9
Anthracite.....	99 7	95 3	100 8	98 6	99 7	100 0	96 3	91 7	96 8	90 3	91 2
Bituminous coal.....	103 2	113 1	113 4	99 7	96 5	100 0	100 4	93 6	97 4	91 8	93 2
Coke.....	104 6	119 1	118 8	97 2	97 7	100 0	94 4	84 6	91 9	84 7	84 5
Manufactured gas.....	103 2	110 3	104 8	102 9	101 9	100 0	97 9	94 9	96 2	95 2	96 6
Petroleum and products.....	87 0	102 9	82 6	83 5	95 0	100 0	72 7	72 0	66 2	71 9	73 9
Iron and steel.....	109 6	98 1	117 3	109 4	102 2	100 0	95 9	94 9	93 7	94 2	96 6
Nonferrous metals.....	96 6	83 5	95 3	93 0	101 4	100 0	91 8	93 3	92 3	92 8	98 0
Agricultural implements.....	101 6	88 2	98 8	105 7	100 4	100 0	99 2	98 8	98 8	98 8	98 8
Automobiles.....	107 2	116 6	108 7	107 5	105 3	100 0	102 5	106 9	104 6	105 1	111 2
Other metal products.....	101 8	94 7	103 3	101 7	100 5	100 0	100 2	97 2	100 7	96 9	96 9
Lumber.....	103 9	99 1	111 8	99 3	100 6	100 0	92 5	90 1	88 0	88 7	93 6
Brick.....	102 4	99 4	103 6	103 4	100 1	100 0	93 2	92 7	92 2	93 2	93 6
Portland cement.....	105 4	103 5	107 9	105 7	102 6	100 0	96 7	95 9	96 5	96 5	94 6
Structural steel.....	113 4	88 5	123 7	114 2	102 2	100 0	94 7	95 2	91 9	94 5	97 0
Paint materials.....	103 4	93 8	101 3	99 7	109 3	100 0	91 0	86 6	86 5	87 1	87 0
Other building materials.....	102 3	95 3	105 5	104 0	100 4	100 0	94 1	101 3	92 5	104 0	107 0
Chemicals.....	102 3	97 2	100 6	102 2	104 1	100 0	100 0	101 3	102 2	100 4	102 4
Drugs and pharmaceuticals.....	96 4	93 3	95 7	95 8	97 7	100 0	87 3	70 8	81 9	70 3	70 8
Fertilizer materials.....	98 0	102 3	102 5	92 6	98 8	100 0	96 2	94 6	95 0	94 0	94 1
Mixed fertilizers.....	101 2	119 0	107 4	95 9	100 4	100 0	93 0	97 3	95 2	98 1	97 8
Furniture.....	109 7	114 6	116 7	107 9	104 6	100 0	97 6	97 2	97 1	97 7	95 3
Furnishings.....	103 5	97 0	104 8	103 4	102 2	100 0	98 6	97 5	99 8	96 5	97 1
Cattle feed.....	113 8	107 3	118 5	110 2	112 7	100 0	117 8	138 1	128 9	148 8	137 0
Paper and pulp.....	102 9	91 6	102 3	160 7	105 2	100 0	92 2	89 4	90 9	89 2	88 6
Rubber, crude.....	85 5	36 0	61 3	54 3	149 9	100 0	77 9	46 4	84 2	40 1	37 0
Automobile tires.....	100 2	115 4	109 5	92 6	98 6	100 0	76 3	64 4	69 9	62 2	58 1
Other miscellaneous.....	100 8	100 4	102 0	100 8	99 6	100 0	99 9	98 6	98 6	98 4	99 7

Source of Tables 342 and 343. Bureau of Labor Statistics, Department of Labor.

# No. 344.—WHOLESALE PRICES OF LEADING COMMODITIES, ACTUAL AND RELATIVE

NOTE.—This list is a selection from among the 550 commodities entering into the general index of wholesale prices of the Department of Labor, shown in Table 340

Commodity	Unit	Average price						
		1913	1923	1924	1925	1926	1927	1928
I—FARM PRODUCTS								
Barley, feeding, Chicago.....	Bushel.....	Dollars 0 625	Dollars 0 660	Dollars 0 817	Dollars 0 844	Dollars 0 694	Dollars 0 825	Dollars 0 826
Corn, contract grades, Chicago.....	do.....	625	821	972	1 038	759	882	977
Corn, No. 3, mixed, Chicago.....	do.....	616	811	957	1 014	736	851	953
Oats, No. 2, white, Chicago.....	do.....	378	439	514	467	430	497	555
Rye, No. 2, Chicago.....	do.....	636	752	916	1 128	954	1 046	1 133
Wheat, No. 2, red winter, Chicago.....	do.....	986	1 170	1 280	1 770	1 542	1 378	1 540
Wheat, No. 2, hard, Kansas City.....	do.....	877	1 112	1 232	1 670	1 496	1 372	1 325
Wheat, No. 1, northern spring, Minneapolis.....	do.....	874	1 181	1 289	1 607	1 549	1 369	1 285
Cattle, steers, good to choice, Chicago.....	100 lbs.....	8 507	9 952	9 669	10.659	9 529	12 688	14.489
Hogs, fair to choice, light, Chicago.....	do.....	8 454	7 839	8 417	12 347	13 115	10 602	9 862
Lambs, western, fair to good, Chicago.....	do.....	7 794	13 446	14.339	15 219	13 701	13 860	14 203
Poultry, live fowls, Chicago.....	Pound.....	154	208	217	229	252	225	246
Cotton, middling, New Orleans.....	do.....	127	287	279	230	168	172	194
Eggs, frsts, Chicago.....	Dozen.....	226	315	334	369	335	300	324
Eggs, frsts, New York.....	do.....	249	347	364	398	350	320	329
Apples, fresh, Baldwins, Chicago.....	Barrel.....	3 174	4 997	4 675	5 938	4 102	4 522	6 979
Oranges, choice, California.....	Box.....	4 420	5 168	5 798	7 062	5 957	7 094	7 370
Hay, alfalfa, Kansas City.....	Ton.....	14 186	23 827	22 611	20 159	21 034	18 594	22 808
Hay, timothy, No. 1, Chicago.....	do.....	16 029	23 789	24 885	23 490	23 481	19 447	20 588
Milk, fluid, Chicago.....	100 lbs.....	1 991	3 051	3 023	2 930	2 940	2 975	2 735
Milk, fluid, New York.....	do.....	2 061	3 535	3 167	3 554	3 623	3 732	3 827
Peanuts, Norfolk.....	Pound.....	036	063	063	062	050	055	056
Flaxseed, Minneapolis.....	Bushel.....	1 349	2 737	2 501	2 721	2 328	2 202	2 245
Tobacco, leaf, Kentucky.....	100 lbs.....	8 909	15 058	14 729	13 928	8 472	11 276	13.503
Potatoes, white, Chicago.....	do.....	1 024	1 457	1 372	2 105	3 013	2 309	1 354
Wool, Ohio, medium grades.....	Pound.....	252	538	548	558	457	447	543
II—FOODS								
Butter, creamery, extra:								
Chicago.....	Pound.....	310	460	410	442	420	458	461
New York.....	do.....	323	468	427	454	443	473	474
San Francisco.....	do.....	317	487	437	503	436	454	460
Cheese, whole milk, Chicago.....	do.....	142	232	196	230	217	241	240
Milk, evaporated, New York.....	Case.....	3 535	4 708	4 144	4 336	4 393	4 564	4 429
Beef, fresh, carcass, steers, Chicago.....	Pound.....	130	158	171	180	164	186	228
Lamb, fresh, Chicago.....	do.....	149	253	251	269	262	262	267
Hams, Chicago.....	do.....	166	212	202	271	308	246	228
Pork, mess, New York.....	Barrel (200 lbs.).....	22 471	26 322	27.915	38 928	37.447	34 500	32.120
Pork, sides, clear, Chicago.....	Pound.....	127	120	144	223	201	187	163
Pork, fresh (composite price), Chicago.....	do.....	136	136	142	205	224	183	170
Poultry, Chicago.....	do.....	145	245	249	245	271	232	226
Bread, Chicago.....	do.....	043	076	074	075	075	075	075
Bread, New York.....	do.....	042	069	070	070	070	070	070
Coffee, Rio No. 7, New York.....	do.....	111	115	168	203	152	148	165
Salmon, canned, Alaska, red.....	Dozen.....	2 378	2 487	3 069	3 326	2 868	2 900	2 900
Flour, short patents, winter, Kansas City.....	Barrel.....	4 012	6 159	6 796	8 525	8 035	7 388	7 073
Flour, standard patents, Minneapolis.....	do.....	4 584	6 385	7 191	8 828	8 426	7 433	7 205
Flour, patents, Portland, Oreg.....	do.....	4 495	7 211	7 574	9 190	7 984	7 475	7 545
Raisins, coast, seeded, New York.....	Pound.....	092	073	075	092	074	061	061
Bananas, Jamaicas, New York.....	Bunch.....	2 285	2 454	2 447	2 451	2 202	2 101	2 101
Lard, prime, contract, New York.....	Pound.....	110	123	133	168	150	129	123
Oleomargarine, standard, uncolored, Chicago.....	do.....	163	209	222	243	228	223	225
Rice, Honduras, New Orleans.....	do.....	051	055	059	070	073	059	048
Salt, American, medium, Chicago.....	Barrel.....	1 020	2 472	2 490	2 204	2 195	2 195	2 272
Sugar, granulated, New York.....	Pound.....	043	084	074	055	055	058	056
Sugar, raw, No. 1, New York.....	do.....	035	070	060	043	043	047	042
Cottonseed oil, New York.....	do.....	073	113	108	108	118	097	099

## No. 344.—WHOLESALE PRICES OF LEADING COMMODITIES, ETC.—Continued

Commodity	Unit	Average price						
		1913	1923	1924	1925	1926	1927	1928
III.—HIDES AND LEATHER PRODUCTS								
Hides, packers, heavy, native steers	Pound	Dollars 0 184	Dollars 0 167	Dollars 0 147	Dollars 0 160	Dollars 0 140	Dollars 0 195	Dollars 0 238
Calfskins, No 1, country, Chicago	do	.189	.157	.183	.201	.173	.197	.274
Goat skins, Brazil, New York	do	.925	.745	.785	.783	.751	.787	.787
Leather, Boston								
Calf, chrome, B grade	Sq ft.	.270	.443	.455	.472	.453	.489	.558
Glazed kid, top grade	do	.250	.688	.673	.683	.675	.677	.715
Side, black, chrome, tanned, B grade	do	.256	.260	.264	.274	.253	.320	.369
Sole, oak, scoured backs	Pound	.449	.508	.449	.482	.438	.493	.611
Shoes								
Youths', tan calf, blucher	Pair					1 663	1 726	1 858
Men's, black, dress, welt	do	2 238	3 150	3 098	3 237	3 199	3 268	3 461
Women's, black kid, dress	do	3 000	4 250	3 854	4 000	4 074	4 000	4 140
IV.—TEXTILE PRODUCTS								
Cotton goods, mill								
Denims, Mass, 28-inch	Yard		.259	.234	.207	.169	.170	.191
Drillings, Pepperell, 29-inch	do	.082	.178	.181	.164	.127	.120	.126
Gingham, Amoskeag, 27-inch	do	.065	.143	.122	.113	.090	.095	.106
Muslin, bleached, Fruit of the Loom	do	.085	.185	.183	.180	.167	.161	.166
Print cloth, 27-inch	do	.035	.075	.068	.066	.052	.055	.068
Sheeting, bleached, Pepperell, 10 1/4	do	.239	.505	.498	.451	.416	.385	.410
Sheeting, brown, Pepperell, 4/4	do	.073	.152	.155	.139	.123	.121	.122
Thread, 6-cord	Spool	.018	.029	.034	.036	.036	.036	.036
Women's union suits	Doren	8 250	12 625	13 364	10 458	9 875	8 864	9 500
Yarn, carded, white, northern, 22/1's cones	Pound	.248	.486	.474	.418	.358	.351	.371
Silk and rayon								
Rayon, 150 B denier, New York	do	1 750	2 600	1 913	1 896	1 692	1 439	1 450
Silk, raw, steam flature, New York	do	4 463	9 178	6 670	6 679	6 348	5 559	5 128
Hosiery, women's, pure silk, mill	Doz prs		13 248	11 920	11 842	12 168	11 003	10 290
Hosiery, men's, silk, mill	do	4 250	6 500	5 502	5 247	4 795	4 250	3 950
Woolen and worsted goods, mill:								
Suiting serge, 11-ounce	Yard	1 131	2 604	2 428	2 403	2 168	2 051	2 052
French serge, 39-inch <sup>1</sup>	do		.753	.775	.799	.728	.987	1 006
Yarn, fine weaving, 2/50's <sup>2</sup>	Pound	1 054	2 565	2 417	2 426	2 106	2 089	2 088
V.—FUEL AND LIGHTING								
Coal, anthracite, chestnut	Ton		13 885	13 911	13 788	13 767	13 298	13 001
Coal, bituminous, mine run	do	3 000	5 833	4 454	4 642	5 381	4 264	4 033
Coke, Connellsville, furnace	do	2 440	5 551	3 528	4 054	4 106	3 199	2 703
Manufactured gas	1,000 cu ft	.805	1 077	1 056	1 053	1 034	1 013	.982
Petroleum, crude, Kans-Okla	Barrel	.934	1 438	1 450	1 670	1 884	1 285	1 203
Fuel oil, refinery, Pennsylvania	Gallon		.055	.055	.059	.064	.051	.048
Gasoline, refinery, Pennsylvania	do		.134	.122	.133	.128	.092	.099
VI.—METALS AND PRODUCTS								
Iron ore, non-Bessemer	Ton	3 400	5 435	4 961	4 375	4 250	4 250	4 250
Pig iron, basic, furnace	do	14 706	25 808	20 245	19 567	18 548	17 697	16 664
Pig iron, Bessemer, Pittsburgh	do	17 133	28 972	23 288	22 318	21 318	20 437	19 207
Nails, wire, Pittsburgh	100 lbs.	1 819	3 035	2 989	2 820	2 750	2 698	2 676
Pipe, cast-iron, 6-inch, New York	Ton	23 371	60 314	60 137	52 196	51 340	43 315	37 659
Skelp, grooved, Pittsburgh	100 lbs.	1 390	2 317	2 140	1 960	1 900	1 890	1 865
Steel billets, open-hearth, Pittsburgh	Ton	26 096	41 750	38 000	35 644	35 000	33 269	32 673
Steel plates, tank, Pittsburgh	Pound	.015	.024	.021	.019	.019	.018	.019
Steel rails, open-hearth, mill	Ton	30 000	43 000	43 000	43 000	43 000	43 000	43 000
Steel sheets, No 27, mill	Pound	.022	.037	.036	.033	.032	.031	.029
Steel, structural, mill	100 lbs.	1 510	2 423	2 235	2 002	1 958	1 854	1 865
Tin plate, domestic, standard, Pittsburgh	do	3 558	5 411	5 500	5 500	5 500	5 481	5 262
Aluminum, New York	Pound	.236	.253	.270	.272	.270	.254	.239
Copper, ingot, electrolytic	do	.157	.145	.131	.141	.138	.130	.146
Lead, pig, desilverized, New York	do	.044	.074	.083	.091	.084	.068	.063
Silver, bar, fine, New York	Ounce	.612	.652	.671	.694	.624	.567	.585
Tin, pig, New York	Pound	.449	.426	.501	.578	.653	.644	.504
Zinc, pig, slab, New York	do	.058	.070	.067	.080	.077	.066	.064

<sup>1</sup> Prior to 1927, 35 to 36 inch.<sup>2</sup> Fine domestic, prior to 1927.

## No. 344.—WHOLESALE PRICES OF LEADING COMMODITIES, ETC.—Continued

Commodity	Unit	Average price						
		1913	1923	1924	1925	1926	1927	1928
VI—METALS, ETC.—continued								
Agricultural implements, factory:		<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>
Cultivator.....	Each.....	21 850	41 370	49 450	45 120	44 170	42 030	41 320
Harrow, spike, peg tooth.....	do.....	8 376	15 630	18 100	17 190	16 720	15 670	15 670
Plow, 2-horse.....	do.....	.....	16 026	17 313	16 458	16 095	15 850	15 250
Separator, cream.....	do.....	39 520	56 520	61 270	59 370	59 370	61 250	61 040
Tractor, 10-20 horsepower.....	do.....	1, 162 5	628 0	680 0	680 0	680 0	680 0	680 0
Automobiles, f. o. b. factory.								
Buick.....	do.....	.....	1, 611 0	1, 725 0	1, 625 0	1, 468 0	1, 492 0	1, 523 0
Ford.....	do.....	624 0	.....	398 0	391 0	413 0	456 0	492 0
Packard.....	do.....	4, 779 0	3, 571 0	3, 724 0	3, 556 0	3, 589 0	3, 403 0	3, 165 0
Sewing machines, electric.....	do.....	.....	71 650	73 850	75 350	77 550	80 250	82 250
Stoves, gas.....	do.....	.....	65 450	63 900	62 750	62 900	63 400	60 650
VII—BUILDING MATERIALS								
Douglas fir, No. 1, common sheathing	1,000 ft.....	9 208	19, 417	17. 250	17. 250	16 483	16 285	16 758
Oak, plain, white, No 1, Cincinnati	do.....	.....	71 558	63 906	63 135	66 019	63 635	59 173
Pine, white, No 2, Buffalo	do.....	.....	67 923	58 717	53 231	50 039	46 231	44 269
Pine, yellow, flooring, mill	do.....	23 036	47 699	41 874	46 493	45 109	38 481	36 485
Pine, yellow, timbers, mill	do.....	14 634	29 923	25 800	26 519	27 835	25 438	24 399
Shingles, cedar, red, mill	1,000.....	1 967	2 903	2 727	2 819	2 734	2 541	2 786
Brick, common, building, plant	do.....	.....	14 506	14 458	14 005	13 913	14 021	13 717
Cement, Portland	Barrel.....	1 005	1 881	1 843	1 789	1 744	1 686	1 672
Linseed oil, raw, New York	Pound.....	062	132	. 131	139	112	105	100
White lead, in oil, New York	do.....	068	. 120	. 148	. 156	152	140	133
Glass, plate, 5 to 10 sq. ft., New York	Sq. ft.....	318	. 700	662	. 553	. 478	. 395	385
Glass, window, single B, works	50 sq. ft.....	2 221	3 612	3 459	3 095	3 110	2 980	3 080
Lime, building, plant	Ton.....	.....	9. 786	9 585	9 388	8 984	8 825	8 562
VIII—CHEMICALS AND DRUGS								
Acid, sulphuric, 66°, New York	Ton.....	20 000	14 600	14 200	14 000	14 600	15 104	15 500
Alcohol, denatured, New York	Gallon.....	366	423	532	. 578	367	478	530
Ammonia, anhydrous, New York	Pound.....	250	300	300	266	131	114	135
Soda ash, light, 58 per cent, New York	100 lbs.....	583	2 015	2 290	2 290	2 290	1 375	1 366
Soda, caustic, New York	do.....	1 460	3 440	3 200	3 200	3 200	3 078	2 930
Tallow, packer's prime, Chicago	Pound.....	071	082	085	097	087	081	088
Alcohol, grain, New York	Gallon.....	2 499	4 745	4 801	4 859	4 855	3 741	2 701
Phenol, U. S. P., New York	Pound.....	.....	370	280	224	197	169	150
Acid phosphate, Baltimore	Ton.....	.....	8 786	8 063	9 346	9 592	8 547	9 292
Nitrate of soda, 95 per cent, New York	100 lbs.....	2 469	2 510	2 490	2 579	2 550	2 495	2 232
Sulphate of ammonia, New York	do.....	.....	3 528	2 753	2 861	2 628	2 427	2 484
Fertilizers, mixed, South Atlantic, 8-3-3.	Ton.....	20 310	26 260	21 380	22 800	23 200	21 792	27 900
IX—HOUSEFURNISHING GOODS <sup>3</sup>								
Carpets, Brussels, factory	Yard.....	1 292	2 988	2 969	3 152	3 064	2 976	2 976
X.—MISCELLANEOUS								
Bran, Minneapolis	Ton.....	18 365	25 551	23 245	24 841	23 084	26 861	30 159
Cottonseed meal, prime, Memphis	do.....	31 608	47 643	39 104	36 313	28 542	35 004	47 042
Middlings, standard, Minneapolis	do.....	19 452	26 565	24 415	26 570	23 430	29 127	31 582
Paper, newsprint, rolls, contract, mills	100 lbs.....	2 300	3 900	3 800	3 700	3 500	3 250	3 250
Paper, wrapping, manila, No. 1, jute, New York	do.....	4 880	9 370	10 440	11 660	11 030	9 230	9 125
Wood pulp, sulphite, domestic, unbleached, New York	do.....	2 225	2. 973	2 579	2 682	2 865	2 633	2 522
Rubber, plantation, ribbed, New York	Pound.....	820	. 307	. 264	. 730	487	381	226
Automobile tires, balloon, factory	Each.....	.....	.....	.....	.....	18 289	13 777	11 784
Cylinder oil, Pennsylvania	Gallon.....	.....	. 224	. 239	. 284	. 264	. 251	. 236
Neutral oil, Pennsylvania	do.....	.....	. 289	. 262	. 241	. 280	. 332	. 314
Soap, laundry, Philadelphia	100 cakes	3 528	4 945	4 735	4 921	4 851	4 851	4 851
Starch, laundry, New York	Pound.....	037	. 051	. 057	. 060	. 058	. 058	. 058
Tobacco, plug, New York	do.....	.....	701	696	696	. 696	. 696	. 696
Tobacco, smoking, 1-ounce bag, New York	Gross.....	5 640	9 920	8 453	8 320	8 320	8 320	8 370

<sup>1</sup> Owing to frequent changes in patterns announced by manufacturers, prices of individual articles of furniture are only roughly comparable from year to year and are not shown.

Source. Bureau of Labor Statistics, Department of Labor.

## No. 345.—WHOLESALE PRICES: INDEX NUMBERS

NOTE.—Figures in boxes indicate number of quotations. Bradstreet's index is the sum of the prices per pound of the 96 commodities. Dun's is weighted by the amount "annually consumed by each inhabitant." For method of computing the Department of Labor index see general note p. 323.

[1926=100]

Year	Bradstreet's index <sup>1</sup>	Dun's index <sup>1</sup>	Department of Labor			
			All commodities	Raw materials	Semi-manufactured articles	Finished products
	96	360	550	108	62	380
1913.....	70.9	64.3	69.8	68.8	74.9	69.4
1914.....	68.9	64.8	67.6	67.0	70.0	67.8
1915.....	77.4	67.6	69.5	67.2	81.2	68.9
1916.....	93.3	80.3	85.5	82.6	118.3	82.3
1917.....	123.8	110.5	117.5	122.6	150.4	109.2
1918.....	145.2	121.9	131.3	135.8	153.8	124.7
1919.....	145.6	123.2	138.6	145.9	157.9	130.6
1920.....	140.6	129.3	154.4	151.8	198.2	149.8
1921.....	87.2	89.1	97.6	88.3	96.1	103.3
1922.....	95.3	92.3	96.7	96.0	98.9	96.5
1923.....	103.5	100.8	100.6	98.5	118.6	99.2
1924.....	100.0	100.9	98.1	97.6	108.7	96.3
1925.....	108.0	104.6	103.5	106.7	105.3	100.6
1926.....	100.0	100.0	100.0	100.0	100.0	100.0
1927.....	99.4	99.4	95.4	96.5	96.9	94.5
1928.....	102.4	103.1	97.7	99.1	97.4	97.0

<sup>1</sup> As of the end of the month.

Source: Survey of Current Business and Department of Labor.

## No. 346.—COST OF LIVING IN THE UNITED STATES: INDEX NUMBERS

NOTE.—1913 average=100. Figures for food represent 51 cities; other figures, 19 cities from 1913 to December, 1917, inclusive, and 32 cities thereafter. Totals weighted by relative importance of items as ascertained by country-wide study of cost of living.

Date	All items	Food	Clothing	Housing	Fuel and light	Furniture and furnishings	Miscellaneous
December, 1914.....	103.0	105.0	101.0	100.0	101.0	104.0	103.0
December, 1915.....	105.1	105.0	104.7	101.5	101.0	110.6	107.4
December, 1916.....	118.3	126.0	120.0	102.3	108.4	127.8	113.3
December, 1917.....	142.4	157.0	149.1	100.1	124.1	150.6	140.5
December, 1918.....	174.4	187.0	205.3	109.2	147.9	213.6	165.8
June, 1919.....	177.3	184.0	214.5	114.2	145.6	225.1	173.2
December, 1919.....	199.3	197.0	268.7	125.3	156.8	263.5	190.2
June, 1920.....	216.5	219.0	287.5	134.9	171.9	292.7	201.4
December, 1920.....	200.4	178.0	258.5	151.1	194.9	285.4	208.2
May, 1921.....	180.4	144.7	222.6	159.0	181.6	247.7	208.8
September, 1921.....	177.3	153.1	192.1	160.0	180.7	224.7	207.8
December, 1921.....	174.3	149.9	184.4	161.4	181.1	218.0	206.8
March, 1922.....	166.9	138.7	175.5	160.9	175.8	206.2	203.3
June, 1922.....	166.6	140.7	172.3	160.9	174.2	202.9	201.5
September, 1922.....	166.3	139.7	171.3	161.1	183.6	202.9	201.1
December, 1922.....	169.5	146.6	171.5	161.9	186.4	208.2	200.6
March, 1923.....	168.8	141.9	174.4	162.4	186.2	217.6	200.3
June, 1923.....	169.7	144.3	174.9	163.4	180.6	222.2	200.3
September, 1923.....	172.1	149.3	176.5	164.4	181.3	222.4	201.1
December, 1923.....	173.2	150.3	176.3	166.5	184.0	222.4	201.7
March, 1924.....	170.4	143.7	175.8	167.0	182.2	221.3	201.1
June, 1924.....	169.1	142.4	174.2	168.0	177.3	216.0	201.1
September, 1924.....	170.6	146.8	172.3	168.0	179.1	214.9	201.1
December, 1924.....	172.5	151.5	171.3	168.2	180.5	216.0	201.7
June, 1925.....	173.5	155.0	170.6	167.4	176.5	214.3	202.7
December, 1925.....	177.9	165.5	169.4	167.1	186.9	214.3	203.5
June, 1926.....	174.8	159.7	168.2	165.4	180.7	210.4	203.3
December, 1926.....	175.6	161.8	166.7	164.2	188.3	207.7	203.9
June, 1927.....	173.4	158.5	164.9	162.1	180.8	205.2	204.5
December, 1927.....	172.0	155.9	162.9	160.2	183.2	204.6	205.1
June, 1928.....	170.0	152.6	162.6	157.6	177.2	201.1	205.5
December, 1928.....	171.3	155.8	161.9	155.9	181.3	199.7	207.1

Source: Bureau of Labor Statistics, Department of Labor.

## No. 347.—COST OF LIVING IN PRINCIPAL CITIES: INDEX NUMBERS

City	Index of total cost of living for December—							Index December, 1928, for—						
	Dec., 1914=100													
	1920	1922	1924	1925	1926	1927	1928	Food	Clothing	Housing	Fuel and light	Furniture and furnishings	Miscellaneous	
Baltimore, Md-----	199.8	174.8	174.8	181.2	178.6	174.5	173.9	151.9	168.3	165.7	187.2	202.0	220.9	
Boston, Mass-----	197.7	169.4	167.8	174.2	171.9	169.5	166.2	150.9	180.4	155.6	192.7	204.0	220.9	
Buffalo, N. Y-----	203.8	178.9	177.3	184.6	179.0	177.3	172.3	142.4	172.4	169.4	228.5	207.2	217.8	
Chicago, Ill-----	207.3	179.6	178.1	182.7	181.5	179.0	175.4	148.5	163.9	160.5	263.7	189.2	219.0	
Cleveland, Ohio-----	218.6	184.7	182.2	187.8	184.1	179.0	177.4	155.7	162.5	178.2	177.0	181.2	231.1	
Detroit, Mich-----	204.0	170.6	170.5	174.3	170.6	167.9	166.4	151.4	186.4	130.1	133.6	231.1	189.3	
Houston, Tex-----	206.2	171.9	170.4	171.7	181.3	173.0	171.0	140.0	184.6	127.4	178.9	209.6	205.1	
Jacksonville, Fla-----	196.7	178.8	175.4	177.4	172.2	170.6	171.0	144.7	170.5	149.8	151.5	208.4	210.9	
Los Angeles, Calif-----	193.3	162.6	163.9	168.5	168.1	163.3	163.7	149.6	148.1	141.6	192.1	192.3	208.3	
Mobile, Ala-----	201.4	177.3	176.5	183.2	180.0	179.1	178.3	153.0	188.4	168.6	196.3	196.4	218.8	
New York, N. Y-----	209.0	172.4	172.1	176.6	174.3	173.4	174.1	155.0	171.8	139.6	200.3	186.1	218.8	
Norfolk, Va-----	203.7	164.9	169.0	176.3	169.2	166.9	166.9	157.0	164.8	120.9	202.4	212.3	220.3	
Philadelphia, Pa-----	180.3	157.8	155.8	156.9	155.1	152.8	152.4	141.8	149.4	116.4	163.0	180.1	178.0	
Portland, Oreg-----	185.1	162.1	160.1	164.7	161.7	160.7	161.7	148.0	183.4	138.5	147.5	199.0	183.2	
San Francisco and Oakland, Calif-----	198.7	168.2	166.3	162.9	160.5	158.1	159.1	135.0	169.9	133.9	159.6	218.8	187.0	
Savannah, Ga-----	194.1	167.8	167.1	167.3	169.9	166.9	160.2	135.2	163.2	154.0	162.0	232.4	197.4	
Seattle, Wash-----	187.8	163.2	163.1	167.3	166.0	160.8	160.2	158.8	165.2	131.0	141.0	199.9	173.8	
Washington, D. C-----	187.8	163.2	163.1	167.3	166.0	160.8	160.2	158.8	165.2	131.0	141.0	199.9	173.8	
Dec., 1917=100														
Atlanta, Ga-----	138.5	116.0	114.9	119.0	117.4	114.3	115.6	102.9	100.4	138.2	136.3	114.9	135.3	
Birmingham, Ala-----	133.3	116.0	116.8	119.2	117.8	115.3	115.2	97.8	95.8	154.8	143.3	112.3	127.2	
Cincinnati, Ohio-----	134.7	117.7	117.6	123.0	123.8	121.3	121.2	100.4	94.5	157.1	161.6	114.7	149.6	
Denver-----	138.7	122.1	120.2	122.6	120.4	116.6	116.3	93.6	108.2	154.1	139.9	118.8	133.8	
Indianapolis, Ind-----	137.6	120.6	121.4	124.3	122.3	119.2	118.5	99.7	103.2	130.4	132.3	112.6	152.0	
Kansas City, Mo-----	130.5	117.2	115.3	118.1	115.2	111.9	111.3	94.4	102.9	123.8	126.8	105.6	137.8	
Memphis, Tenn-----	132.5	113.0	112.4	122.1	119.8	117.3	117.3	95.1	100.2	143.3	168.8	105.6	137.8	
Minneapolis, Minn-----	133.2	113.8	112.3	122.7	119.8	117.3	117.3	95.1	100.2	143.3	168.8	105.6	137.8	
New Orleans, La-----	136.7	120.2	120.3	122.7	121.7	119.9	119.5	90.8	113.1	154.8	128.4	117.9	146.8	
Pittsburgh, Pa-----	139.8	122.9	124.9	128.5	127.2	124.4	124.4	102.1	103.5	171.6	186.0	112.7	146.9	
Richmond, Va-----	133.3	117.1	116.5	125.0	119.3	116.4	115.7	96.9	105.4	128.9	147.5	119.5	140.9	
St. Louis, Mo-----	135.4	120.6	120.7	132.0	124.5	121.4	120.4	97.8	102.5	174.2	123.1	119.5	138.7	
Scranton, Pa-----	139.1	125.8	125.8	132.0	129.8	128.5	127.8	104.3	115.3	171.7	172.2	129.3	157.8	

Source: Bureau of Labor Statistics, Department of Labor.

**No. 348.—RETAIL FOOD PRICES IN THE UNITED STATES: INDEX NUMBERS**

NOTE.—1913 average=100 The principal commodities used in this index number are listed in Table 330.  
For index numbers for individual cities see Table 349

Year	Index numbers of—		Year	Index numbers of—		Year	Index numbers of—	
	Retail price of food	Purchasing power of the dollar measured in food		Retail price of food	Purchasing power of the dollar measured in food		Retail price of food	Purchasing power of the dollar measured in food
1890.....	70	143	1903.....	75	133	1916.....	114	88
1891.....	71	141	1904.....	76	132	1917.....	146	68
1892.....	69	145	1905.....	76	132	1918.....	108	60
1893.....	71	141	1906.....	79	127	1919.....	198	54
1894.....	68	147	1907.....	82	122	1920.....	203	49
1895.....	67	149	1908.....	84	119	1921.....	153	65
1896.....	65	154	1909.....	89	112	1922.....	142	70
1897.....	65	154	1910.....	93	108	1923.....	146	68
1898.....	67	149	1911.....	92	109	1924.....	146	68
1899.....	68	147	1912.....	98	102	1925.....	157	64
1900.....	69	145	1913.....	100	100	1926.....	161	62
1901.....	72	139	1914.....	102	98	1927.....	155	64
1902.....	75	133	1915.....	101	99	1928.....	154	65

**No. 349.—RETAIL FOOD PRICES IN PRINCIPAL CITIES: INDEX NUMBERS**

NOTE.—1913 average=100. For average for all cities see Table 348

City	1916	1920	1922	1923	1924	1925	1926	1927	1928	1928			
										Mar.	June	Sept.	Dec.
Atlanta, Ga.....	108	202	141	143	144	158	165	160	158	154	157	160	163
Baltimore, Md.....	113	207	146	152	152	164	168	161	159	155	158	165	157
Birmingham, Ala.....	116	209	143	149	150	165	168	161	159	155	157	162	161
Boston, Mass.....	112	203	145	151	149	158	162	157	156	155	152	161	157
Buffalo, N. Y.....	115	210	147	151	149	162	166	160	159	157	157	162	160
Charleston, S. C.....	108	207	146	148	149	159	164	157	156	153	153	158	158
Chicago, Ill.....	114	207	145	152	155	166	171	166	165	161	164	170	177
Cincinnati, Ohio.....	112	203	140	143	142	157	163	157	157	153	157	162	159
Cleveland, Ohio.....	114	208	137	145	145	156	162	155	153	151	174	157	152
Dallas, Tex.....	111	197	141	143	146	156	156	154	155	151	153	157	160
Denver, Colo.....	112	195	129	135	134	143	144	140	139	136	139	141	143
Detroit, Mich.....	114	215	145	152	151	165	169	163	160	158	158	165	161
Fall River, Mass.....	112	204	144	150	145	153	158	155	154	151	149	158	157
Indianapolis, Ind.....	114	202	135	142	141	151	157	151	151	147	150	155	153
Jacksonville, Fla.....	108	192	136	139	140	153	161	150	145	141	142	150	145
Kansas City, Mo.....	114	206	137	141	141	155	158	150	150	149	151	152	150
Little Rock, Ark.....	110	195	135	139	138	149	153	143	147	144	146	149	151
Los Angeles, Calif.....	102	184	135	140	141	149	146	143	143	139	138	148	148
Louisville, Ky.....	110	197	131	136	138	154	157	152	153	149	154	156	156
Manchester, N. H.....	113	206	142	149	145	152	157	153	154	151	150	159	155
Memphis, Tenn.....	111	204	134	138	137	150	152	146	148	144	146	151	152
Milwaukee, Wis.....	115	209	142	148	149	157	163	157	156	153	155	160	156
Minneapolis, Minn.....	114	208	140	144	143	154	159	152	153	152	156	154	154
Newark, N. J.....	111	195	139	146	143	151	154	150	150	148	147	153	151
New Haven, Conn.....	115	201	141	149	146	155	161	157	157	154	154	161	161
New Orleans, La.....	112	200	142	143	144	156	156	154	153	150	160	156	156
New York, N. Y.....	112	204	147	153	150	160	164	160	158	155	154	161	160
Omaha, Nebr.....	115	210	139	142	142	155	159	151	147	142	146	151	149
Philadelphia, Pa.....	113	201	143	149	147	159	164	160	158	155	158	161	159
Pittsburgh, Pa.....	112	202	139	149	148	158	162	158	156	153	152	160	161
Portland, Oreg.....	104	187	130	133	134	142	140	139	140	137	138	144	143
Providence, R. I.....	114	209	147	153	149	158	162	156	156	155	152	160	158
Richmond, Va.....	114	214	153	156	153	166	170	162	161	157	161	164	162
St. Louis, Mo.....	114	213	141	145	147	160	164	159	156	154	156	158	158
Salt Lake City, Utah.....	111	185	123	127	127	140	135	134	132	128	132	135	136
San Francisco, Calif.....	105	189	139	142	144	155	153	151	151	148	148	154	154
Saranton, Pa.....	112	208	148	153	143	161	165	162	163	160	161	166	164
Seattle, Wash.....	105	180	136	138	139	150	147	145	145	142	142	151	147
Washington, D. C.....	112	208	150	154	152	165	169	163	164	158	161	170	164

Source: Bureau of Labor Statistics, Department of Labor.



# No. 350.—RETAIL PRICES OF PRINCIPAL ARTICLES OF FOOD IN THE UNITED STATES: ACTUAL AND RELATIVE

NOTE.—For index numbers 1913 average = 100. Data are averages of prices as reported by retail dealers as of the 15th of each month in 51 of the larger cities since the year 1920 and in a smaller number of cities for earlier years (39 in 1913)

Year or month	Price Index		Price Index		Price Index		Price Index		Price Index		Price Index		Price Index	
	Sirloin steak		Round steak		Rib roast		Pork chops		Bacon		Lard			
	Per lb		Per lb.		Per lb		Per lb		Per lb		Per lb		Per lb	
1891-1895.....			\$0 123	55			\$0 112	53	\$0 132	49	\$0 100	63		
1896-1900.....			.127	57			.111	53	.132	49	.091	58		
1901-1905.....			.141	63			.137	65	.176	65	.113	73		
1906-1910.....	\$0 192	76	.159	71	\$0 159	80	.167	80	.217	80	.136	86		
1911-1915.....	.241	95	.213	96	.191	96	.201	96	.261	97	.150	95		
1916-1920.....	.366	144	.338	152	.285	144	.356	170	.461	171	.290	184		
1921-1925.....	.391	154	.337	151	.287	145	.331	158	.412	153	.190	120		
1926.....	.254	100	.223	100	.198	100	.210	100	.270	100	.158	100		
1927.....	.388	153	.344	154	.291	147	.349	166	.427	158	.180	114		
1928.....	.374	147	.323	145	.276	139	.330	157	.398	147	.170	108		
1929.....	.391	154	.335	150	.284	143	.304	145	.391	145	.177	112		
1930.....	.366	156	.338	152	.288	146	.308	147	.377	140	.190	120		
1931.....	.406	160	.347	156	.296	150	.366	174	.467	173	.233	148		
1932.....	.413	163	.356	160	.303	153	.395	188	.503	186	.219	139		
1933.....	.426	168	.371	166	.313	158	.368	175	.472	175	.193	122		
1934.....	.478	188	.420	188	.350	177	.348	166	.440	163	.186	118		
1935.....	.449	177	.391	175	.331	167	.286	136	.430	159	.178	113		
1936.....	.474	187	.416	186	.347	175	.348	166	.432	160	.182	115		
1937.....	.518	204	.468	205	.374	189	.443	211	.454	168	.193	122		
1938.....	.482	190	.427	192	.357	180	.313	149	.433	160	.187	118		
March.....														
June.....														
September.....														
December.....														
	Hens		Eggs		Butter		Cheese		Milk		Bread			
	Per lb		Per doz		Per lb.		Per lb.		Per qt		Per lb		Per lb	
1891-1895.....	\$0 136	64	\$0 214	62	\$0 268	70			\$0 068	76				
1896-1900.....	.131	62	.199	58	.247	64			.067	75				
1901-1905.....	.154	72	.254	74	.281	73			.071	80				
1906-1910.....	.182	85	.304	88	.333	87			.079	89				
1911-1915.....	.206	97	.341	99	.363	95	\$0 227	103	.088	99	\$0 063	113		
1916-1920.....	.351	165	.527	153	.567	148	.358	162	.133	149	.096	171		
1921-1925.....	.365	171	.483	140	.523	137	.352	159	.139	156	.091	163		
1926.....	.213	100	.345	100	.383	100	.221	100	.089	100	.056	100		
1927.....	.397	186	.509	143	.517	135	.340	154	.146	164	.099	177		
1928.....	.360	169	.444	129	.479	125	.329	149	.131	147	.087	155		
1929.....	.350	164	.465	135	.554	145	.369	167	.138	155	.087	155		
1930.....	.353	166	.478	139	.517	135	.353	160	.138	155	.088	157		
1931.....	.366	172	.521	151	.548	143	.367	166	.140	157	.094	168		
1932.....	.388	182	.485	141	.531	139	.366	166	.140	157	.094	168		
1933.....	.369	173	.452	131	.556	145	.376	170	.141	158	.093	166		
1934.....	.374	178	.464	134	.565	148	.385	174	.142	160	.091	162		
1935.....	.372	175	.370	107	.573	150	.385	174	.142	160	.091	162		
1936.....	.371	174	.388	112	.539	141	.381	172	.140	157	.092	164		
1937.....	.379	178	.504	146	.576	150	.387	175	.142	160	.091	162		
1938.....	.379	178	.584	169	.593	155	.385	174	.143	161	.090	161		
March.....														
June.....														
September.....														
December.....														
	Flour		Corn meal		Rice		Potatoes		Sugar		Coffee			
	Per 1/2 bbl bag		Per lb		Per lb.		Per pk		Per lb		Per lb		Per lb	
1891-1895.....	\$0 637	79	\$0 020	67			\$0 235	92	\$0 057	104				
1896-1900.....	.639	79	.018	60			.211	83	.058	105				
1901-1905.....	.687	85	.022	73			.263	103	.058	105				
1906-1910.....	.807	100	.027	90			.271	106	.059	107				
1911-1915.....	.872	108	.031	103			.282	111	.061	111	\$0 298	100		
1916-1920.....	1 637	203	.058	193	.130	149	.009	239	.115	209	.362	121		
1921-1925.....	1 303	161	.045	151	.090	114	.453	178	.084	152	.410	138		
1926.....	.809	100	.030	100	.087	100	.255	100	.065	100	.368	100		
1927.....	1 421	176	.045	150	.095	109	.465	182	.080	145	.361	121		
1928.....	1 250	155	.039	130	.095	109	.420	165	.073	133	.361	121		
1929.....	1 152	142	.041	137	.095	109	.435	171	.101	184	.377	127		
1930.....	1 201	149	.047	157	.101	116	.405	159	.092	167	.433	145		
1931.....	1 495	185	.054	180	.111	128	.540	212	.072	131	.515	173		
1932.....	1 470	182	.051	170	.116	133	.735	288	.069	126	.510	171		
1933.....	1 348	167	.052	173	.107	123	.570	224	.073	133	.483	162		
1934.....	1 323	164	.053	177	.100	115	.405	159	.071	129	.492	165		
1935.....	1 298	161	.052	173	.101	116	.510	200	.071	129	.488	164		
1936.....	1 396	173	.053	177	.099	114	.435	171	.073	133	.492	165		
1937.....	1 298	161	.053	177	.100	115	.330	129	.070	127	.495	166		
1938.....	1 250	154	.053	177	.099	114	.380	120	.067	122	.497	167		
March.....														
June.....														
September.....														
December.....														

1907-1910.

1913-1915.

## No. 351.—ANNUAL AVERAGE UNIT VALUES OF IMPORTANT DOMESTIC ARTICLES EXPORTED FROM THE UNITED STATES

NOTE.—The values of the goods are required by law to represent their market value at the port of exportation. The headnote to Table 352 also applies to this table.

Year ended—	Bacon, hams, and should- ers, per pound		Pork, pickled, per pound		Eggs, per dozen		Milk, Condensed and evaporated, per pound		Butter, per pound		Cheese, per pound		Lard, per pound		Sole leather, per pound		Corn, per bushel		Rye, per bushel		Wheat, per bushel		Wheat flour, per barrel		Oil cake, and oil cake meal, per pound		Cottonseed oil, per pound		Sugar, per pound		Raisin, per barrel <sup>1</sup>		Spirits of turpentine, per gallon		Tobacco, leaf, per pound		Cotton, per pound		Boards, planks, per M feet		Anthracite, per ton		Bituminous, per ton		Petroleum, crude, per gallon		Gasoline, naphtha, etc., per gallon		Kerosene, per gallon		Wire, per pound		Wire nails, per pound																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts	Cts

<sup>1</sup> Barrels of 280 pounds.<sup>1</sup> Per gallon prior to 1910. Approximately 7½ pounds=1 gallon.

Source: Bureau of Foreign and Domestic Commerce

## No. 352.—ANNUAL AVERAGE UNIT VALUES OF IMPORTANT ARTICLES IMPORTED INTO THE UNITED STATES

NOTE.—The values are required by law to represent the values of the goods in the foreign markets whence exported to the United States. "Ton" signifies long ton of 2,240 pounds. The averages are obtained by dividing the total value of imports of the specified article by the total quantity, and as in some commodities there may be considerable variations in price between different grades, methods of packing, etc., and as the proportions of the grades, etc., may vary from year to year, the averages in such cases may show the actual price movements only roughly.

Year ended—	Fish, cured, (200 pounds)		Hides and skins, per pound		Rice, per pound	Wheat, bushel	Copra, per pound	Flax seed, per bushel	Cocon, per pound	Coffee, per pound	Tea, per pound	Cane sugar, per pound	Rubber, crude, per pound	Shellac, per pound	Tobacco, leaf, per pound		Cotton, unmanufactured, per pound	Inte and butts, per ton		Flax, per ton
	Her- ring	Mar- cel	Goat	Cattle											Cigar wrap- pers	Other leaf				Dollars
June 30—	Dollars	Dollars	Cents	Cents	Cents	Dollars	Cents	Dollars	Cents	Cents	Cents	Cents	Cents	Cents	Dollars	Cents	Cents	Dollars	Dollars	Dollars
1902.....	6.91	10.60	28.9	11.8	2.1	0.66	4.3	1.38	13.0	6.5	12.4	1.81	49.4	17.7	0.89	42.73	11.9	84.49	269.55	
1903.....	7.37	14.73	29.3	12.3	2.2	.62	3.4	1.25	12.3	6.5	14.4	1.71	55.3	23.4	.74	45.38	14.5	42.14	248.68	
1904.....	6.53	13.86	27.8	12.9	2.5	1.10	2.8	.95	12.3	7.0	16.2	1.94	68.5	32.1	.75	47.52	17.5	42.43	251.10	
1905.....	6.50	12.12	27.6	13.2	2.5	.89	2.8	1.08	11.6	8.8	15.6	2.04	74.2	35.0	.74	48.77	15.6	45.82	273.44	
1906.....	7.47	12.19	28.6	14.0	2.5	.92	2.8	1.41	10.9	8.6	15.6	2.14	78.0	32.4	.96	52.16	15.3	62.65	266.62	
1907.....	7.50	12.28	31.3	15.8	3.0	.63	4.3	1.38	14.5	7.9	16.1	2.11	76.6	32.7	1.14	54.55	19.0	85.66	260.41	
1908.....	6.78	13.74	27.2	12.3	2.9	.97	3.4	1.25	17.2	7.6	17.8	2.37	58.8	31.0	1.06	63.41	19.9	60.49	263.93	
1909.....	6.80	10.47	26.0	12.4	2.7	.89	2.8	1.40	11.4	7.5	16.2	2.30	69.8	20.3	.95	65.58	15.7	46.06	257.57	
1910.....	6.96	10.43	26.6	14.7	2.6	.92	3.6	1.71	10.5	7.9	16.0	2.59	100.0	13.2	.98	52.91	18.4	54.70	277.10	
1911.....	9.50	9.50	25.0	14.4	2.8	.94	4.1	2.04	10.5	10.3	17.2	2.45	105.8	14.9	1.08	53.63	21.8	72.33	342.47	
1912.....	7.79	12.19	24.4	15.3	2.4	.82	4.4	1.90	10.3	13.3	18.0	2.81	84.4	12.2	1.25	51.17	18.4	71.12	346.66	
1913.....	8.24	10.35	25.7	17.3	3.7	.70	4.5	1.54	12.4	13.8	18.4	2.18	79.5	13.9	1.29	45.33	18.9	74.01	318.01	
1914.....	7.21	10.98	26.2	18.6	3.2	.89	5.3	1.22	11.8	11.1	18.4	2.00	54.0	16.1	1.28	50.44	15.7	105.38	290.37	
1915.....	6.57	12.27	24.3	18.3	2.4	1.10	3.8	1.25	11.9	9.5	18.1	3.21	48.3	12.5	1.28	46.44	12.5	56.26	399.60	
1916.....	7.86	13.65	27.2	20.3	2.4	1.02	4.1	1.38	14.4	9.6	18.8	3.70	57.9	12.8	1.43	40.45	17.2	73.07	505.59	
1917.....	9.44	16.14	52.5	24.9	2.8	1.74	5.1	2.03	11.8	10.1	18.6	4.33	56.8	23.4	1.34	47.83	27.5	87.50	535.00	
1918.....	16.57	12.48	47.4	25.3	3.5	2.02	5.5	2.56	10.3	9.0	20.4	4.82	52.1	41.5	1.21	53.37	34.9	92.11	1,037.72	
Dec 31—																				
1919.....	13.65	25.00	71.5	30.8	7.0	1.88	6.4	3.16	14.8	19.6	24.9	5.60	40.2	48.6	1.40	83.10	41.0	194.51	904.21	
1920.....	12.49	18.81	110.5	31.1	10.3	2.10	6.6	3.03	15.8	13.5	27.0	12.59	42.9	80.8	1.80	89.93	46.2	100.93	866.77	
1921.....	11.65	15.32	87.8	12.9	3.4	1.54	3.9	1.06	7.6	10.7	18.6	3.94	17.8	48.9	2.00	92.84	23.7	93.08	666.91	
1922.....	10.21	17.84	40.5	14.5	3.4	1.15	3.7	2.09	9.3	12.9	24.5	2.59	15.1	59.3	2.04	74.57	25.6	107.38	575.03	
1923.....	9.95	15.91	43.9	16.0	3.3	.99	4.0	2.01	8.2	13.5	28.2	4.93	26.7	59.7	2.35	80.76	26.4	128.33	511.09	
1924.....	12.09	17.67	39.3	13.1	4.0	1.00	4.4	1.81	7.8	17.6	29.3	4.39	23.7	53.5	2.56	97.77	30.3	114.02	615.19	
1925.....	13.30	15.80	40.7	16.0	4.7	1.30	5.0	2.40	10.0	22.3	31.2	2.75	48.4	51.0	2.34	90.18	33.7	100.60	680.59	
1926.....	12.05	14.05	44.6	14.7	4.5	1.30	5.1	1.84	10.0	21.8	32.7	3.07	54.6	33.6	2.25	75.48	25.5	215.06	478.07	
1927.....	12.69	13.10	43.6	17.4	4.4	1.31	4.6	1.74	13.4	13.4	31.6	3.06	33.0	41.4	2.15	64.34	24.9	131.32	479.08	
1928.....	12.98	13.96	46.0	23.1	4.2	1.17	4.5	1.78	12.4	21.3	30.3	2.68	26.0	42.4	2.66	63.61	23.2	129.45	698.47	

## No. 352.—ANNUAL AVERAGE UNIT VALUES OF IMPORTANT ARTICLES IMPORTED INTO THE UNITED STATES

NOTE.—The values are required by law to represent the values of the goods in the foreign markets whence exported to the United States. "Ton" signifies long ton of 2,240 pounds. The averages are obtained by dividing the total value of imports of the specified article by the total quantity, and as in some commodities there may be considerable variations in price between different grades, methods of packing, etc., and as the proportions of the grades, etc., may vary from year to year, the averages in such cases may show the actual price movements only roughly.

Year ended—	Fish, cured, per barrel, (200 pounds)		Hides and skins, per pound		Rice, per pound	Wheat, per bushel	Copra, per pound	Flax- seed, per bushel	Cocon, per pound	Coffee, per pound	Tea, per pound	Cane sugar, per pound	Rub- ber, crude, per pound	Shel- lac, per pound	Tobacco, leaf, per pound		Cotton, unman- ufactured, per pound	Inte and butts, per ton	Flax, per ton
	Her- ring	Mark- etrel	Goat	Cattle											Cigar wrap- pers	Other leaf			
June 30—	Dollars	Dollars	Cents	Cents	Cents	Dollars	Cents	Dollars	Cents	Cents	Cents	Cents	Cents	Cents	Dollars	Cents	Cents	Dollars	Dollars
1902.....	6.91	10.60	28.9	11.8	2.1	0.66	4.3	1.52	13.0	6.5	12.4	1.81	49.4	17.7	0.89	42.73	11.9	84.49	269.55
1903.....	7.37	14.73	29.3	12.3	2.2	.62	3.4	1.50	12.3	6.5	14.4	1.71	55.3	23.4	.74	45.38	14.5	42.14	248.68
1904.....	6.53	13.86	27.8	12.9	2.5	1.10	2.8	.95	12.3	7.0	16.2	1.94	68.5	32.1	.75	47.52	17.5	42.43	251.10
1905.....	6.50	12.12	27.6	13.2	2.5	.89	2.8	1.08	11.6	8.8	15.8	2.04	74.2	35.0	.74	48.77	15.6	45.82	273.44
1906.....	7.47	12.19	28.6	14.0	2.5	.92	4.3	1.41	10.9	8.6	15.6	2.14	78.0	32.4	.96	52.16	15.3	62.05	266.62
1907.....	7.50	12.28	31.3	15.8	3.0	.63	4.3	1.38	14.5	7.9	16.1	2.11	76.6	32.7	1.14	54.55	19.0	85.66	260.41
1908.....	6.78	13.74	27.2	12.3	2.9	.97	3.4	1.25	17.2	7.6	17.8	2.37	58.8	31.0	1.06	63.41	19.9	60.49	263.93
1909.....	6.80	10.47	26.0	12.4	2.7	.89	2.8	1.40	11.4	7.5	16.2	2.30	69.8	20.3	.95	65.58	15.7	46.06	257.57
1910.....	6.96	10.43	26.6	14.7	2.6	.92	3.6	1.71	10.5	7.9	16.0	2.59	100.0	13.2	.98	52.91	18.4	54.70	277.10
1911.....	9.50	9.50	25.0	14.4	2.8	.94	4.1	2.04	10.5	10.3	17.2	2.45	105.8	14.9	1.08	53.63	21.8	72.33	342.47
1912.....	7.79	12.19	24.4	15.3	2.4	.82	4.4	1.90	10.3	13.3	18.0	2.81	84.4	12.2	1.25	51.17	18.4	71.12	346.66
1913.....	8.24	10.35	25.7	17.3	3.7	.70	4.5	1.54	12.4	13.8	18.4	2.18	79.5	13.9	1.29	45.33	18.9	74.01	318.01
1914.....	7.21	10.98	26.2	18.6	3.2	.89	5.3	1.22	11.8	11.1	18.4	2.00	54.0	16.1	1.28	50.44	15.7	105.38	290.37
1915.....	6.57	12.27	24.3	18.3	2.4	1.10	3.8	1.25	11.9	9.5	18.1	3.21	48.3	12.5	1.28	46.44	12.5	56.26	399.60
1916.....	7.86	13.65	27.2	20.3	2.4	1.02	4.1	1.38	14.4	9.6	18.8	3.70	57.9	12.8	1.43	40.45	17.2	73.07	505.59
1917.....	9.44	16.14	52.5	24.9	2.8	1.74	5.1	2.03	11.8	10.1	18.6	4.33	68.8	23.4	1.34	47.83	27.5	87.50	535.00
1918.....	16.57	12.48	47.4	25.3	3.5	2.02	5.5	2.56	10.3	9.0	20.4	4.82	52.1	41.5	1.21	53.37	34.9	92.11	1,037.72
Dec 31—																			
1919.....	13.65	25.00	71.5	30.8	7.0	1.88	6.4	3.16	14.8	19.6	24.9	5.60	40.2	48.6	1.40	83.10	41.0	194.51	904.21
1920.....	12.49	18.81	110.5	31.1	10.3	2.10	6.6	3.03	15.8	13.5	27.0	12.59	42.9	80.8	1.80	89.93	46.2	100.93	966.77
1921.....	11.05	15.32	87.8	12.9	3.4	1.54	3.9	1.06	7.6	10.7	18.6	3.94	17.8	48.9	2.00	92.84	23.7	93.08	966.91
1922.....	10.21	17.84	40.5	14.5	3.4	1.15	3.7	2.09	9.3	12.9	24.5	2.59	15.1	59.3	2.04	74.57	23.6	107.38	975.03
1923.....	9.95	15.91	43.9	16.0	3.3	.99	4.0	2.01	8.2	13.5	28.2	4.93	26.7	59.7	2.35	80.76	26.4	128.33	511.09
1924.....	12.09	17.67	39.3	13.1	4.0	1.00	4.4	1.81	7.8	17.6	29.3	4.39	23.7	53.5	2.56	97.77	30.3	114.02	615.19
1925.....	13.30	15.80	40.7	16.0	4.7	1.30	5.0	2.40	10.0	22.3	31.2	2.75	48.4	51.0	2.34	90.18	33.7	100.93	680.59
1926.....	12.05	14.05	44.6	14.7	4.5	1.30	5.1	1.84	10.0	21.8	32.7	3.07	54.6	33.6	2.25	75.48	25.5	215.06	478.07
1927.....	12.69	13.10	43.6	17.4	4.4	1.31	4.6	1.74	13.4	18.4	31.6	3.06	35.0	41.4	2.15	64.34	24.9	131.32	479.08
1928.....	12.98	13.96	46.0	23.1	4.2	1.17	4.5	1.78	12.4	21.3	30.3	2.68	26.0	42.4	2.66	63.61	23.2	129.45	698.47

# 15.—WAGES, HOURS OF LABOR, AND EMPLOYMENT

## No. 353.—WAGES AND HOURS OF LABOR: AVERAGE FULL-TIME HOURS PER WEEK AND EARNINGS PER HOUR IN SPECIFIED MANUFACTURING INDUSTRIES

NOTE —“The general index” (based on 1913=100) covers all occupations of industry or branch of industry indicated, including various occupations not shown separately. For hours of labor in mines and quarries see Table 725, also consult index under “Wages” for data in other sections

### TEXTILES

Year	Hours per week	Wages per hour	Hours per week	Wages per hour	Hours per week	Wages per hour	Hours per week	Wages per hour	Hours per week	Wages per hour	Hours per week	Wages per hour	Hours per week	Wages per hour	Hours per week	Wages per hour
Cotton goods																
	Weavers, male		Weavers, female		Spinners, frame, male		Spinners, frame, female		Speeder tenders, male		Speeder tenders, female		General index <sup>1</sup>			
		Dolls		Dolls		Dolls		Dolls		Dolls		Dolls				
1910.....	58 8	0 151	57 8	0 147	57 2	0 120	59 0	0 108	61 4	0 131	57 8	0 133	102.1		87.5	
1913.....	57 6	.170	56 7	.164	56 9	.143	57 8	.128	59 8	.145	56 5	.153	100.0		100.0	
1916.....	56 7	.205	55 7	.201	56 6	.164	57 2	.149	58 5	.174	55 6	.188	98.6		120.6	
1918.....	56 2	.301	55 4	.285	54 3	.248	56 1	.233	58 2	.265	55 0	.277	97.0		179.9	
1920.....	51 8	.573	50 3	.528	50.7	.475	51 8	.427	54 2	.533	50 2	.496	89.7		323.5	
1922.....	52 6	.389	51 6	.380	53 4	.292	52 6	.301	54 1	.358	51 0	.369	91.5		222.4	
1924.....	52.3	.449	51 8	.429	53 2	.360	53 1	.319	54 3	.394	51 2	.411	91.9		250.7	
1926.....	53 2	.396	51 9	.375	55 1	.289	53 5	.282	55 1	.343	51 0	.308	92.8		221.0	
1928.....	53.4	.392	52 2	.371	57 8	.339	52 9	.276	55 1	.345	51 2	.359	92 5		218.3	
Men's clothing																
	Cutters, cloth, male		Pressers, coat, male		Operators, coat, male		Operators, coat, female		Hand sewers, coat, female		Basters, coat, male		General index <sup>1</sup>			
1911.....	49 9	0 406	55 1	0 240	55 9	0 264	54 2	0 195	54 8	0 155	55 3	0 220	104.6		86.7	
1913.....	49 0	.433	52.3	.291	52 5	.305	52 1	.199	52 1	.179	52 5	.207	100.0		100.0	
1919.....	47.7	.628	47.8	.591	47 6	.591	48 1	.361	47 8	.334	47 5	.317	92.6		173.5	
1922.....	44 0	1.033	44 1	.869	44 1	.962	43 9	.593	44 2	.526	44 3	.848	85.3		283.7	
1924.....	44.2	1.111	44 2	.934	44.1	1.033	43 6	.614	44 1	.555	44 4	.889	85.3		295.8	
1926.....	44.2	1.123	44 3	.933	44 1	1.034	44 4	.638	44 4	.545	44 3	.925	85.7		291.2	
1928.....	43 8	1.129	44.0	.912	44 2	1.016	43 8	.632	43 9	.527	44 2	.905	85 1		284.4	
Woolen and worsted goods																
	Weavers, male		Weavers, female		Spinners, mule, male		Spinners, frame, female		Burlers, female		Laborers, dyehouse, male		General index <sup>1</sup>			
1910.....	57.1	0 207	56 3	0 180	57 0	0 224	56 0	0 122	56 5	0 130	56 3	0 143	101.3		90.4	
1913.....	56 3	.232	56 0	.197	56 5	.239	55 5	.140	55 6	.146	55 6	.159	100.0		100.0	
1916.....	54.9	.304	54 5	.271	55 3	.316	53 9	.180	54 6	.185	55 0	.197	97.8		126.7	
1918.....	54.5	.470	54 1	.406	54.9	.499	52 4	.278	54 1	.276	54.7	.304	97.0		192.6	
1920.....	48.3	.807	48 3	.747	48 2	.816	48 2	.481	48 4	.452	48 3	.454	86.2		353.7	
1922.....	48.3	.616	48 4	.576	49 2	.670	48 4	.345	48 2	.371	48 9	.435	87.1		267.4	
1924.....	48.8	.701	48 9	.654	48 9	.755	48 9	.417	49 2	.420	49 2	.490	87.7		300.2	
1926.....	48 9	.652	49 2	.600	49 7	.695	49 8	.362	49 3	.381	49 4	.445	88.0		276.5	
1928.....	48 9	.658	48 8	.605	49.5	.684	49 7	.383	49 3	.383	49 1	.463	88 0		289.5	
Hosiery and underwear																
	Boarders, hosiery, male		Finishers, underwear, female		Knitters, web or tube underwear, male		Knitters, transfer, hosiery, female		Loopers, hosiery, female		Seamers, underwear, female		General index <sup>1</sup>			
1910.....	57 0	0 193	57 9	0 150	58 0	0 201	57 5	0 121	57 3	0 133	57 8	0 143	104.2		82.0	
1913.....	55 8	.219	54 7	.184	55 4	.249	56 0	.149	56 0	.150	54 5	.176	100.0		100.0	
1919.....	52 5	.460	51 9	.297	52 9	.407	53 0	.272	52 2	.296	51 3	.325	94.2		188.1	
1922.....	51 3	.462	50 2	.327	51 8	.448	50 7	.293	50 8	.327	50 3	.372	91.0		218.0	
1924.....	51.9	.531	49.8	.377	51 3	.528	50 3	.344	50.8	.384	50 3	.372	91.3		246.1	
1926.....	53 4	.481	50 3	.358	52 0	.534	52.5	.298	52 4	.371	50 2	.374	92 4		266.6	
1928.....	53 8	.521	50 2	.341	52 2	.490	53 1	.294	53 0	.385	50 2	.355	92 4		267.2	

<sup>1</sup> Includes occupations shown, together with other occupations in the industry.

## No. 353.—WAGES AND HOURS OF LABOR, ETC.—Continued

## BOOTS AND SHOES

Year	Hours per week		Wages per hour		Hours per week		Wages per hour		Hours per week		Wages per hour		Hours per week		Wages per hour		Hours per week		Wages per hour		Hours per week		Wages per hour	
	Cutters, hand, male		Treers, male		Vampers, female		Bed- machine operators, male		Top stitchers, female		Lining makers, female		General index <sup>1</sup>											
	Hours	Dolls.	Hours	Dolls.	Hours	Dolls.	Hours	Dolls.	Hours	Dolls.	Hours	Dolls.	Hours	Dolls.	Hours	Dolls.	Hours	Dolls.	Hours	Dolls.	Hours	Dolls.	Hours	Dolls.
1910.....	56.3	0.319	55.9	0.259	56.9	0.238	56.4	0.311	56.3	0.188	56.5	0.164	102.7	92.0										
1913.....	54.5	.351	55.3	.282	54.7	.246	55.2	.330	54.6	.212	54.6	.190	100.0	100.0										
1916.....	53.9	.375	54.9	.291	53.9	.254	55.0	.349	54.0	.220	53.9	.198	99.1	107.5										
1918.....	52.0	.484	52.3	.403	51.7	.312	52.1	.500	51.6	.285	51.5	.241	94.9	139.7										
1920.....	47.8	.829	48.3	.677	48.8	.506	48.7	.789	48.5	.448	48.6	.378	88.2	232.0										
1922.....	48.3	.787	48.6	.577	49.0	.480	48.9	.668	48.8	.433	48.8	.362	88.4	207.9										
1924.....	48.4	.838	48.8	.624	49.4	.519	49.1	.692	49.3	.462	49.3	.369	88.9	214.1										
1926.....	48.9	.808	49.2	.611	49.1	.531	49.1	.700	49.3	.486	49.3	.413	88.9	219.1										
1928.....	48.6	.824	49.2	.624	49.3	.505	49.2	.682	49.4	.451	49.2	.398	89.2	220.8										

## IRON AND STEEL

Year	Blast furnaces												General index <sup>1</sup>	
	Stockers		Larrymen		Blowers		Keepers		Keepers' helpers		Laborers			
1913-----	78.0	<i>Dolls</i> 0 192	82.3	<i>Dolls.</i> 0 217	82.2	0 332	82.0	0 235	82.2	0 186	72.5	0 171	100	100
1915-----	74.6	.188	78.6	.211	80.6	.336	79.4	.232	80.1	.182	71.3	.171	97	101
1917-----	77.4	.295	77.2	.327	77.8	.485	77.4	.344	77.6	.292	75.3	.281	( <sup>2</sup> )	( <sup>2</sup> )
1919-----	78.1	.465	80.4	.542	79.8	.755	80.6	.562	80.2	.480	77.9	.457	( <sup>2</sup> )	( <sup>2</sup> )
1920-----	75.5	.527	73.8	.586	73.2	.868	73.3	.635	74.5	.522	72.3	.474	94	279
1922-----	74.4	.352	75.1	.402	72.4	.678	75.3	.420	75.3	.349	67.7	.315	94	194
1924-----	60.5	.465	57.7	.548	58.3	.889	57.1	.579	58.6	.475	62.4	.401	78	254
1926-----	60.1	.465	57.9	.551	58.5	.902	57.4	.577	59.1	.471	62.4	.389	78	252
Open-hearth furnaces														
	Stockers		Charging-machine operators		Melters' helpers, first		Steel pourers		Ladle cranemen		Laborers		General index <sup>1</sup>	
1913-----	77.8	<i>Dolls</i> 0 197	78.0	<i>Dolls.</i> 0 335	77.1	0 440	77.0	0 370	77.2	0 341	76.2	0 187	100	100
1915-----	77.3	.199	77.7	.330	75.5	.437	75.7	.356	76.0	.327	70.8	.186	97	104
1917-----	77.4	.296	77.1	.467	76.3	.586	76.0	.486	76.4	.466	74.4	.292	( <sup>2</sup> )	( <sup>2</sup> )
1919-----	75.7	.506	75.3	.753	74.9	.986	73.2	.796	75.6	.733	76.2	.468	( <sup>2</sup> )	( <sup>2</sup> )
1920-----	70.9	.573	67.2	.895	69.4	1.089	68.0	.929	68.3	.837	68.5	.525	90	283
1922-----	73.9	.379	72.2	.625	71.4	.775	70.4	.645	72.9	.588	67.9	.354	92	208
1924-----	58.2	.540	56.3	.863	55.5	1.064	56.5	.837	55.2	.832	59.0	.434	76	268
1926-----	57.8	.535	55.7	.951	55.3	1.170	55.6	.889	54.9	.900	59.2	.429	74	286
Bar mills														
	Stockers		Rollers		Roughers		Finishers		Hotbed men		Laborers		General index <sup>1</sup>	
1913-----	60.2	<i>Dolls</i> 0 216	59.3	0 955	59.8	0 436	59.6	0 350	60.3	0 217	62.5	0 169	100	100
1915-----	60.2	.198	59.4	.944	58.9	.438	59.8	.352	60.0	.216	62.9	.173	100	92
1919-----	63.7	.524	61.3	1.821	60.7	.933	61.6	.768	59.4	.445	66.1	.443	( <sup>2</sup> )	( <sup>4</sup> )
1920-----	61.5	.612	59.5	1.949	57.8	1.034	60.0	.866	58.3	.618	64.1	.506	100	248
1922-----	59.2	.420	58.4	1.416	57.3	.709	57.9	.638	58.3	.439	64.1	.316	100	169
1924-----	56.0	.502	53.9	1.577	54.7	.810	54.0	.749	53.8	.538	57.5	.392	90	203
1926-----	54.2	.519	53.2	1.699	53.2	.847	53.0	.848	53.0	.564	55.0	.411	89	205

<sup>1</sup> Includes occupations shown, together with other occupations in the industry<sup>2</sup> Not available. Data were collected for a group of selected occupations only in 1917 and 1919.

## No. 353.—WAGES AND HOURS OF LABOR, ETC.—Continued

## IRON AND STEEL—Continued

Year	Hours per week	Wages per hour	Hours per week	Wages per hour	Hours per week	Wages per hour	Hours per week	Wages per hour	Hours per week	Wages per hour	Hours per week	Wages per hour	Hours per week	Wages per hour	Hours per week	Wages per hour
	Tin-plate mills															
	Rollers		Roughers		Doublers		Heaters, level-handed		Tinner		Assorters, female		General index <sup>1</sup>			
	Hours per week	Dolls.	Hours per week	Dolls.	Hours per week	Dolls.	Hours per week	Dolls.	Hours per week	Dolls.	Hours per week	Dolls.	Hours per week	Dolls.	Hours per week	Dolls.
1913	42 7	1 139	42 7	0.533	42 7	0.740	42 7	0.595	43 6	0.433	53 7	0.163	100	100		
1915	42 7	1 106	42 7	.562	42 7	.718	42 7	.611	43 3	.442	55 4	.462	109	108		
1919	42 7	2 248	42 7	1.193	42 7	1 408	42 7	1.273	43 0	.977	48 5	.417	(?)	(?)		
1920	42 7	2 542	42 7	1.363	42 7	1.655	42 7	1.465	42 9	1 114	46 9	.465	110	228		
1922	42 7	1 701	42 7	.593	42 7	1.046	42 7	1.001	43 3	.795	43 6	.305	108	156		
1924	42 7	2 099	42 7	1.150	42 7	1 249	42 7	1.229	43 4	.976	43 6	.422	106	191		
1926	42 7	1.635	42 7	.902	42 7	.787	42 7	.917	43 5	.840	43 4	.384	104	169		

## GENERAL INDEXES FOR OTHER BRANCHES—IRON AND STEEL

Year	Bessemer converters		Puddling mills		Blooming mills		Plate mills		Standard-rail mills		Sheet mills	
	Hours per week	Dolls.	Hours per week	Dolls.	Hours per week	Dolls.	Hours per week	Dolls.	Hours per week	Dolls.	Hours per week	Dolls.
1913	100	100	(?)	(?)	100	100	100	100	100	100	100	100
1915	98	93	98	96	97	101	98	106	100	97	100	93
1920	100	238	101	270	92	246	98	263	86	249	96	215
1922	98	185	98	151	93	178	96	187	87	185	98	144
1924	75	220	105	220	75	231	82	220	81	226	96	167
1926	75	226	98	200	74	237	80	238	78	234	93	157

FOUNDRIES<sup>4</sup>

Year	Core makers, males		Core makers, females		Laborers, males		Molders, hand, floor, males		Pattern makers, males		Employees in all occupations			
											Males		Females	
	Hours per week	Dolls.	Hours per week	Dolls.	Hours per week	Dolls.	Hours per week	Dolls.	Hours per week	Dolls.	Hours per week	Dolls.	Hours per week	Dolls.
1923	51 4	0 690	49 2	0 431	53 5	0 423	51 2	0 729	51 1	0 750	52 4	0 560	49 3	0 404
1925	50 3	.734	48 6	.444	52 5	.481	50 4	.802	50 4	.804	51 5	.612	49 0	.427
1927	50 4	.755	48 4	.491	52.1	.491	49 9	.820	50 3	.830	51.1	.626	49.0	.459

MACHINE SHOPS<sup>4</sup>

Year	Assemblers, males		Fitters and bench hands, males		Laborers, males		Lathe hands and operators, engine, males		Machinists, males		Employees in all occupations			
											Males		Females	
	Hours per week	Dolls.	Hours per week	Dolls.	Hours per week	Dolls.	Hours per week	Dolls.	Hours per week	Dolls.	Hours per week	Dolls.	Hours per week	Dolls.
1923	50 6	0 575	49 9	0 616	51.1	0 418	50 9	0 633	50 0	0 683	50.8	0 560	49.1	0 396
1925	49 6	.634	49 8	.643	50 6	.456	50 3	.663	49 9	.702	50.4	.604	49 3	.429
1927	50 1	.653	49.5	.662	50.4	.456	50.2	.695	49.5	.728	50.1	.629	48.9	.403

AUTOMOBILE<sup>4</sup>

Year	Assemblers, chassis, males		Assemblers, motor, males		Gear-cutter operators, males		Grinding-machine operators, males		Tool and die makers, males		Employees in all occupations			
											Males		Females	
	Hours per week	Dolls.	Hours per week	Dolls.	Hours per week	Dolls.	Hours per week	Dolls.	Hours per week	Dolls.	Hours per week	Dolls.	Hours per week	Dolls.
1922	50 2	0 647	50 0	0 661	50.2	0 678	50.0	0 710	50 0	0 769	50 1	0 652	50 3	0 438
1925	49 9	.694	49 8	.747	50 6	.746	50 1	.765	50 2	.875	50 3	.729	50 1	.467
1928	49.0	.758	50.1	.762	49 5	.760	48 8	.792	48 8	.919	49 4	.756	50 3	.487

<sup>1</sup> Includes occupations shown, together with other occupations in the industry.<sup>2</sup> Not available. Data were collected for a group of selected occupations only in 1919.<sup>3</sup> No data.<sup>4</sup> Data are not collected annually, but at intervals, and are available only for the years specified.

# No. 353.—WAGES AND HOURS OF LABOR, ETC.—Continued

## LUMBER

Year	Hours per week	Wages per hour	Hours per week	Wages per hour	Hours per week	Wages per hour	Hours per week	Wages per hour	Hours per week	Wages per hour	Hours per week	Wages per hour	Hours per week	Wages per hour	Hours per week	Wages per hour
	Doggers		Setters		Sawyers, head, band		Edgemen		Trimmer operators		Laborers		General index <sup>1</sup>			
	( <sup>2</sup> )	Dolls. ( <sup>3</sup> )	( <sup>2</sup> )	Dolls. ( <sup>3</sup> )	( <sup>2</sup> )	Dolls. ( <sup>3</sup> )	( <sup>2</sup> )	Dolls. ( <sup>3</sup> )	( <sup>2</sup> )	Dolls. ( <sup>3</sup> )	( <sup>2</sup> )	Dolls. ( <sup>3</sup> )				
1910.....	61 2	0 184	61 0	0 258	61 2	0 543	61 2	0 255	61 0	0 209	61 3	0 166	100	97		
1913.....	61 3	178	61 2	239	61 0	539	61 0	252	61 1	203	61 3	171	100	100		
1915.....	57 8	358	57 0	446	57 5	768	57 5	450	57 3	405	57 1	345	92	194		
1919.....	58 1	306	57 6	412	57 8	797	57 5	437	57 0	380	57 2	285	94	166		
1921.....	57 6	343	57 0	474	57 0	883	57 1	492	56 9	430	57 5	310	94	180		
1923.....	58 2	332	57 5	458	57 7	877	57 8	468	57 7	409	57 5	309	94	178		
1925.....	57 6	335	56 5	468	56 7	887	56 7	470	55 8	429	56 9	308	91	185		

## SLAUGHTERING AND MEAT PACKING

Year	Cattle killing										Hog killing				
	Headers, male		Leg breakers, male		Floormen or siders, male		Gutters and bung droppers, male		Splitters, male		Laborers, male		Stickers, male		
1917-----	( <sup>2</sup> )	Dolls. <sup>0</sup> 384	( <sup>2</sup> )	Dolls. <sup>0</sup> 318	( <sup>2</sup> )	Dolls. <sup>0</sup> 563	( <sup>2</sup> )	Dolls. <sup>0</sup> 319	( <sup>2</sup> )	Dolls. <sup>0</sup> 591	( <sup>2</sup> )	Dolls. <sup>0</sup> 238	( <sup>2</sup> )	Dolls. <sup>0</sup> 357	
1921-----	47 6	<sup>0</sup> 645	47 8	<sup>0</sup> 574	48 0	<sup>0</sup> 848	47 8	<sup>0</sup> 578	47 8	<sup>0</sup> 855	47 8	<sup>0</sup> 471	49 6	<sup>0</sup> 611	
1923-----	52 1	627	52 8	529	52 6	849	52 5	554	52 5	857	52 2	436	53 0	652	
1925-----	50 0	641	49 9	558	49 9	856	50 1	575	50 0	855	50 2	442	51 8	627	
1927-----	49 0	662	49 1	556	49 2	877	49 0	587	49 1	876	49 4	451	50 3	631	
Hog killing—Continued														All departments <sup>7</sup>	
	Scalders, male <sup>8</sup>		Shavers and scrapers, male		Gutters, bung droppers, and rippers—open, male		Splitters, male		Laborers, male <sup>9</sup>		All males		All females		
1917-----	( <sup>2</sup> )	<sup>0</sup> 295	( <sup>2</sup> )	<sup>0</sup> 290	( <sup>2</sup> )	<sup>0</sup> 337	( <sup>2</sup> )	<sup>0</sup> 364	( <sup>2</sup> )	<sup>0</sup> 237	( <sup>2</sup> )	<sup>0</sup> 271	( <sup>2</sup> )	<sup>0</sup> 178	
1921-----	48 8	<sup>0</sup> 516	48 9	<sup>0</sup> 502	48 7	<sup>0</sup> 584	48 8	<sup>0</sup> 621	48 8	<sup>0</sup> 451	48 4	<sup>0</sup> 511	48 3	<sup>0</sup> 365	
1923-----	52 1	496	52 5	497	52 4	572	52 3	627	52 2	444	52 2	499	52 8	361	
1925-----	51 9	514	51 4	523	51 9	590	51 5	635	51 7	433	50 2	507	49 4	359	
1927-----	50 5	521	50 6	535	50 4	589	50 1	630	51 0	442	49 3	520	49 1	364	

<sup>1</sup> Includes occupations shown together with other occupations in the industry.

<sup>2</sup> Data for doggers and setters combined are shown as carriage men prior to 1911.

<sup>3</sup> Not including data for 1 establishment in which employees are paid biweekly.

<sup>7</sup> Includes cattle, hog, sheep, and calf killing, offal, hide, casing, cutting or fresh beef, cutting or fresh pork, lard and oleo oil, sausage, cured meat, canning, and maintenance and repair departments.

<sup>8</sup> Includes tub men, droppers, gamb cutters, polemen, and duckers.

<sup>9</sup> Includes drivers, penners, steamers, singers, washers, atchbone breakers, and toe pullers.

## No. 354.—WAGES PER HOUR IN THE COAL-MINING INDUSTRY

NOTE.—Practically all mines operate on a 48-hour week, but contract miners and their laborers in anthracite mines, and loaders, hand or pick miners, and machine miners in bituminous mines, generally work less hours. General averages are weighted according to relative importance of the different occupations. Data are not collected annually, but at intervals, and are available only for the years specified.

Industry and occupation	1922	1924	Industry and occupation	1922	1924	1926
<b>Anthracite.<sup>1</sup></b>			<b>Bituminous.</b>			
Average wages, (cents per hour)—			Average wages, (cents per hour)—			
General average.....	79.5	85.7	General average <sup>2</sup> .....	85.3	78.8	76.3
Contract miners.....	117.3	143.2	Brakemen <sup>1</sup> .....	77.9	71.0	68.7
Laborers.....	82.0	97.1	Drivers <sup>1</sup> .....	82.4	74.8	70.8
Drivers.....	58.0	63.2	Loaders, hand <sup>3</sup> .....	90.2	81.1	77.9
Company miners.....	69.7	79.5	Mine, hand or pick <sup>4</sup> .....	84.0	80.8	78.3
Laborers.....	62.9	69.6	Miners, machine <sup>5</sup> .....	127.4	116.3	119.5
Trackmen.....	67.5	74.1	Trackmen <sup>1</sup> .....	82.6	73.7	70.5

<sup>1</sup> Based on hours actually worked, excluding lunch time.

<sup>2</sup> Based on a combination of hours at place of work in mine, including lunch time for loaders and miners, and hours actually worked for all other employees.

<sup>3</sup> Based on hours actually worked, plus lunch time.

Source of Tables 353 and 354. Bureau of Labor Statistics, Department of Labor



# No. 355.—WAGES PER HOUR AND HOURS OF LABOR PER WEEK IN SUNDRY INDUSTRIES

NOTE.—The averages for wages are weighted according to the relative importance of the different occupations in the industry. Data are not collected annually, but at intervals, and are available only for the years specified

Year and industry	Hours, average		Wages, average		Year and industry	Hours, average		Wages, average	
	Males	Females	Males	Females		Males	Females	Males	Females
1923			Cents	Cents	1927			Cents	Cents
Automobile tire.....	49.6	49.0	74.1	46.0	Aluminum, brass, and copper wares.....	52.2	52.6	57.9	35.5
Paper and pulp mills					Brass and copper sheet, rod, tube, wire and shape mills.....	53.8	54.7	55.6	34.8
Pulp.....	52.8	49.7	46.9	33.4	Batteries and small motors.....				
Book paper.....	51.4	51.5	52.7	31.9	Dry cell.....	49.5	49.3	54.1	41.6
Newsprint.....	49.3	50.3	58.9	32.9	Storage.....	48.6	49.2	69.8	39.2
Wrapping paper.....	52.4	52.7	52.8	30.2	Motors (1 H. P. or less).....	48.9	48.0	64.2	42.9
Writing paper.....	51.3	51.2	55.1	37.9	Radio manufacture: Receiving sets.....	48.5	48.3	59.0	38.4
1924					Speakers.....	48.4	46.8	55.5	39.9
Metalliferous mines.....	53.0	-----	55.9	-----	Tubes.....	48.9	48.5	60.2	40.7
1925					Cotton compresses.....	56.2	55.9	31.6	13.2
Paper box board.....	54.3	53.9	51.8	28.3	Cottonseed-oil mills.....	70.9	(3)	24.0	(3)
Potteries:					Cotton guns.....	66.2	(3)	29.3	(3)
Semivitreous.....	(1)	(1)	70.5	38.5					
Vitreous.....	(1)	(1)	63.8	32.9					

<sup>1</sup> The normal or customary hours of operation of the great majority of the potteries included in the study are 9 hours per day and 54 hours per week. Working hours in a pottery, however, are more nominal than normal, as so many employees are pieceworkers and to quite an extent determine their own time

<sup>2</sup> All female workers were "Colored"

<sup>3</sup> No females employed in the plants covered

Source: Bureau of Labor Statistics, Department of Labor.

# No. 356.—WAGES OF COMMON LABOR IN ROAD BUILDING: CENTS PER HOUR

NOTE.—The current data beginning January, 1922, are compiled directly from Federal-aid project reports. Earlier data included reports on farm labor or other farms of common labor closely correlated, as reported to the Department of Agriculture and the Department of Labor

Year and month	United States, average	New England	Middle Atlantic	South Atlantic	East South Central	West South Central	East North Central	West North Central	Mountain	Pacific
Monthly average:										
1915.....	20	20	20	14	12	16	21	25	25	26
1916.....	23	25	24	16	13	17	24	28	29	28
1917.....	28	31	30	21	17	21	29	34	36	36
1918.....	36	39	38	27	23	28	39	45	44	45
1919.....	41	41	41	32	28	36	43	53	47	52
1920.....	49	49	50	37	32	40	53	62	55	60
1921.....	36	38	35	26	25	28	35	45	46	50
1922.....	32	39	37	21	20	24	31	31	37	48
1923.....	35	51	45	25	22	25	39	34	42	54
1924.....	38	50	45	28	24	27	40	36	41	52
1925.....	38	46	45	27	25	27	37	38	44	52
1926.....	35	50	46	30	25	27	38	36	43	52
1927.....	39	49	47	28	25	30	39	38	45	53
1928.....	40	50	44	26	26	28	39	38	46	53
1927										
March.....	39	51	51	32	24	26	39	37	42	52
June.....	39	51	46	29	25	26	38	38	44	54
September.....	40	49	46	26	25	33	40	38	46	54
December.....	39	55	46	24	24	32	42	37	46	54
1928										
March.....	38	51	48	23	28	30	41	37	42	52
June.....	40	48	42	20	26	30	37	36	45	53
September.....	43	48	42	24	25	26	38	39	52	54
December.....	39	51	44	28	26	30	41	38	46	53

Source: Bureau of Public Roads, Department of Agriculture.

## No. 357.—INDEX NUMBERS OF UNION WAGE RATES AND HOURS OF LABOR

NOTE.—Index numbers subsequent to 1924 cover only the occupations listed in Table 359, for previous years they included also the metal and millwork trades See also headnote, Table 358

[Rates and hours for 1913=100]

Year	Rates of wages per hour	Full-time hours per week	Rates of wages per week, full time	Year	Rates of wages per hour	Full-time hours per week	Rates of wages per week, full time
1907	89.7	102.6	91.5	1918	132.7	97.0	129.6
1908	91.0	102.1	92.5	1919	154.5	94.7	147.8
1909	91.9	101.9	93.3	1920	199.0	93.8	185.8
1910	96.0	101.1	95.2	1921	205.3	93.9	192.3
1911	97.6	100.7	96.5	1922	193.1	94.4	183.0
1912	97.6	100.3	97.7	1923	210.6	94.3	198.0
1913	100.0	100.0	100.0	1924	228.1	93.9	214.3
1914	101.9	99.6	101.6	1925	237.9	93.0	222.3
1915	102.8	99.4	102.3	1926	250.3	92.8	233.4
1916	107.2	98.8	106.2	1927	259.5	92.4	240.8
1917	114.2	98.4	112.4	1928	260.6	91.9	240.6

Source Bureau of Labor Statistics, Department of Labor

## No. 358.—INDEX NUMBERS OF UNION HOURS OF LABOR PER WEEK AND RATES OF WAGES PER HOUR, BY OCCUPATIONS

NOTE.—The figures cover the principal cities of the United States. The relative hours are percentages showing the change in the regular full-time working hours per week, account not being taken of loss of time from slack work or other causes nor of overtime work. The relative wages are percentages which indicate the change in wages per hour. The figures are based on the scale prevailing May 15 each year. For absolute hourly wages rates for the same and other occupations, see Table 359. Data for the metal and millwork trades for 1924 and earlier years may be found in previous issues of this publication.

[1913=100]

Year	Hours per week	Wages per hour	Hours per week	Wages per hour	Hours per week	Wages per hour	Hours per week	Wages per hour	Hours per week	Wages per hour	Hours per week	Wages per hour
							Building trades					
							Bakers	Bricklayers	Building laborers	Carpenters	Cement finishers	Cement finishers' helpers
1910	109.1	85.8	100.6	96.7	100.0	94.5	100.7	95.1	102.1	94.2	100.1	93.2
1913	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1916	98.1	107.0	99.2	103.8	99.2	106.1	99.4	105.8	97.9	103.0	99.5	101.5
1918	96.0	142.2	98.9	115.4	97.7	137.4	98.5	126.1	96.2	120.2	99.2	123.6
1920	89.9	264.0	98.7	174.7	94.8	225.9	98.5	194.8	95.0	182.9	99.2	225.0
1921	90.3	278.7	98.7	172.7	94.7	227.7	98.4	197.8	95.0	188.4	99.2	226.2
1923	90.2	276.0	98.6	191.1	94.7	218.1	98.8	204.0	95.0	191.2	99.2	223.4
1924	90.1	283.5	98.6	202.2	94.4	242.4	98.8	218.3	95.0	211.4	99.2	248.3
1925	89.7	293.4	98.5	213.4	94.5	231.6	98.8	222.8	94.7	212.6	99.2	260.8
1926	90.5	277.2	98.5	226.4	94.7	254.9	98.8	238.4	94.7	226.9	99.2	288.0
1927	90.2	286.8	98.1	231.9	94.9	255.8	98.8	246.7	94.4	236.8	99.2	294.1
1928	89.6	285.9	98.0	233.9	94.8	257.0	98.2	247.5	93.8	234.6	99.2	281.9
Building trades—Continued												
1910	100.0	100.0	101.2	97.2	100.8	95.9	100.0	100.0	100.0	92.3	101.3	92.6
1913	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1916	9.89	102.5	98.7	104.9	98.4	107.2	99.5	106.0	99.6	102.4	99.1	113.2
1918	96.8	123.8	98.6	136.6	97.3	127.0	99.0	119.1	99.5	107.9	97.7	129.4
1920	95.8	175.6	98.1	232.4	96.2	192.0	98.1	188.9	99.1	153.4	94.7	206.0
1921	96.3	178.2	98.0	237.8	96.2	201.9	98.1	192.1	99.2	160.6	94.7	212.5
1923	95.6	185.5	98.1	215.4	96.2	197.1	98.4	199.3	99.2	178.0	95.1	218.7
1924	95.6	197.2	98.0	224.9	96.2	220.5	98.2	215.1	99.2	186.1	95.0	230.5
1925	95.9	206.7	97.9	251.5	96.2	232.4	97.9	234.5	99.2	190.0	95.3	243.1
1926	96.1	212.7	98.0	273.8	96.1	241.6	97.6	240.6	99.2	212.3	94.9	257.5
1927	97.7	224.2	98.0	280.4	96.2	254.9	97.2	250.3	99.1	217.0	94.5	266.2
1928	96.6	233.5	98.0	280.7	95.7	257.2	96.7	251.0	99.1	218.0	92.0	270.8

**No. 358.—INDEX NUMBERS OF UNION HOURS OF LABOR PER WEEK AND RATES OF WAGES PER HOUR, BY OCCUPATIONS—Continued**

Year	Hours per week	Wages per hour	Hours per week	Wages per hour	Hours per week	Wages per hour	Hours per week	Wages per hour	Hours per week	Wages per hour	Hours per week	Wages per hour
Building trades—Continued												
	Plasterers		Plasterers' laborers		Plumbers and gas fitters		Sheet-metal workers		Steam fitters		Stonemasons	
1910.....	100 6	96 6	100 6	96.4	101 1	90 9	101 7	91.0	101 3	91 9	100.8	94.7
1913.....	100 0	100 0	100 0	100.0	100 0	100 0	100 0	100.0	100 0	100 0	100.0	100.0
1916.....	98 4	104 7	99 1	105.0	99 1	103 0	99 3	106 9	98 5	106.2	99.7	105.5
1918.....	98 0	113.5	99 0	129.3	98.2	117.5	98 2	130 6	97 4	120 6	99.6	120 4
1920.....	97 9	170 7	98 6	213 5	97 9	172.1	97 5	193 2	97 3	178 8	99.0	188 1
1921.....	97 5	180 5	98 3	219.1	97 8	181 1	97 1	202 3	97 0	171 3	99.2	193 0
1923.....	98 1	193 2	98 4	212 0	97 7	185 6	97 1	201 9	97 0	175.6	99.2	212.5
1924.....	98 2	216 1	98 3	227 8	97 7	202 4	97 1	221 7	97 0	201 5	98.9	225.2
1925.....	97 9	219 8	98 1	233.1	97 7	206 6	97 1	229 3	97 0	212 2	98.9	229.5
1926.....	95 1	236 1	94 9	257.2	97 7	222 7	97 1	244 8	96 9	229 7	99.1	253.1
1927.....	94 7	241 0	94 9	259.7	97 6	227 2	96 8	252 2	96 8	236 2	98.9	256 0
1928.....	93.9	241 6	95 1	264.1	97.5	232.1	91.5	247 4	96 8	239 5	98.8	259 3
Building trades—Cont.												
	Structural- iron workers		Tile layers		Chauffeurs		Teamsters and drivers		Longshore- men		Granite cutters	
1910.....	101 7	92 7									101.8	93.7
1913.....	100 0	100 0	100 0	100 0	100 0	100 0	100 0	100 0	100 0	100 0	100.0	100.0
1916.....	99.5	103 6	99 1	102 6	96 8	106 1	98 8	106 9	99 9	116 5	100 3	105 2
1918.....	98.9	126 5	98 8	110 8	94 0	130 9	96 6	133 2	98 3	149 0	100.2	130.1
1920.....	98 7	179 4	98 2	162 6	87 2	200 1	90 4	215.4	76 7	233 5	100.2	168 5
1921.....	96 7	184 0	98 3	161 9	87 5	202 5	88 2	223 0	76 6	236 8	100.1	200 0
1923.....	98 8	178 4	98 4	174 0	88 6	197 7	89 3	224 9	81 8	209 2	99.8	212 7
1924.....	98 7	202 5	98 4	197.5	89.1	205 6	89 5	244 7	81 8	238 5	100.2	214 2
1925.....	98 8	204 5	98 4	202.3	87 7	223 5	88 2	254 3	77 5	239 9	100.2	216.8
1926.....	98 7	218 5	98 4	212.0	85.1	226 3	89 0	256 6	76 7	242 0	100.0	244 1
1927.....	98 7	235 5	98 3	221.9	83.8	242 1	88 3	269 1	75.7	236 7	100.2	242 6
1928.....	98 7	235 7	98 0	221.8	84 0	243 2	88 2	277.1	75.6	248 6	100.2	245 3
Printing and publishing—Book and job												
	Bookbinders		Compositors		Electro- typers		Machine operators		Press assist- ants and feeders		Pressmen, cylinder	
1910.....	100 3	95 1	100 1	94 1	100 8	91.5	100 3	93 9	100.2	92.4	100.0	95 4
1913.....	100 0	100 0	100 0	100 0	100 0	100.0	100 0	100.0	100.0	100 0	100.0	100 0
1916.....	100 0	102 0	100 0	105 3	99.7	109.8	100 1	101.6	100 0	104.5	100.0	108.7
1918.....	100 0	121 6	100 0	118 6	99 6	119 1	100 1	112 5	100 0	128 8	100.0	117 2
1920.....	100 0	204 0	100 0	190 6	99.5	193.5	100 1	174 6	99.9	227.7	100 0	184 5
1921.....	94 7	220 1	94 3	219 6	96.5	223 1	93 9	200 6	94.2	245 8	94.5	205 5
1923.....	93.4	224 0	91 4	228 5	95 9	241 6	92 2	203 8	92.5	266.2	98.0	216.7
1924.....	93 1	233 9	91 7	238.5	95 7	250 6	91 8	212 9	92.7	263.8	93.1	223 1
1925.....	93 3	236 6	91 7	237.4	96 6	249.7	92 2	211 7	92.4	278.8	92.6	225 9
1926.....	93 2	240 8	91 7	242 1	96 6	252 2	92 0	215.2	92 3	281 9	92.4	230 5
1927.....	93 0	246 0	91 7	246 6	96 6	255.2	92 2	223 0	92.2	285 3	92 4	230 9
1928.....	93 6	244 8	91 7	250 1	96 6	257 1	92 0	224 6	92 2	287 0	92.3	232.7
Printing and publishing—Newspaper												
Printing and publishing Book and job—Con	Pressmen, platen		Compositors, daywork		Machine operators, daywork		Machine tenders, (machinists), daywork		Pressmen, web presses, daywork		Stereotypers, daywork	
1910.....	99 8	94 9	100 4	92 7	100 5	94 8			100 3	95 5	100 5	92 1
1913.....	100 0	100 0	100 0	100 0	100 0	100.0	100 0	100 0	100 0	100 0	100 0	100 0
1916.....	100 0	104 1	99 6	102 3	99.2	102 7	99 7	101 3	100 0	102 0	99 8	102 4
1918.....	100 0	120 4	99 6	110 0	99 3	110 1	99 7	108 1	99 9	113 1	99 8	109 4
1920.....	99 9	200.4	99 9	160 7	99 5	167 5	99 8	171 7	101 1	169 5	99.9	149 8
1921.....	94 7	231 7	99 5	174 9	99 2	175 5	99 8	178 5	100 6	184 1	98 1	173 9
1923.....	92 9	235 8	100 6	177 9	100 3	183 1	100 5	189 9	102 3	182 4	99 9	174 0
1924.....	93 1	242 9	99 7	189 0	99 1	193 4	99 9	191 5	100 5	199 4	99 8	180 4
1925.....	93 1	244 3	99 4	193 7	99 0	198 0	100 3	193 3	100 0	208 2	99 6	184 5
1926.....	92 3	255 8	99 3	196 7	98 9	201 6	100 2	185 2	100 3	212 2	99 6	189 1
1927.....	92 3	258 3	99 3	201 8	98 5	208 9	100 1	194 5	99 9	223 3	99 1	191 0
1928.....	92.5	253 9	98 9	206 6	98 2	213 8	100 0	198 4	99.9	224 9	99.5	191 0

Source: Bureau of Labor Statistics, Department of Labor.

# No. 359.—AVERAGE UNION RATES OF WAGES PER HOUR IN TRADES SPECIFIED, FOR THE UNITED STATES, AS OF MAY 15

NOTE.—Statistics cover the principal cities of the United States. For index numbers in the principal trades, based on these rates, see Table 358

Occupation	1923	1927	1928	Occupation	1923	1927	1928
<b>Grand average, all trades herein covered<sup>1</sup></b>	<i>Dolls.</i> 0.986	<i>Dolls.</i> 1.190	<i>Dolls.</i> 1.195	<b>PRINTING AND PUBLISHING: BOOK AND JOB</b>			
<b>Bakers</b>	921	957	954	Bindery women	<i>Dolls.</i> 0.507	<i>Dolls.</i> 0.522	<i>Dolls.</i> 0.525
<b>BUILDING TRADES</b>				Bookbinders	907	996	991
Asbestos workers	1.005	1.309	1.317	Compositors	1.024	1.105	1.121
Bricklayers	1.321	1.603	1.617	Electrotypers	1.158	1.223	1.232
Sewer, tunnel, and caisson	1.534	2.101	2.059	Machine operators:			
Building laborers	.728	.854	.858	Piece-work	4.150	4.150	(3)
Carpenters	1.084	1.311	1.315	Time-work	1.062	1.162	1.170
Millwrights	1.164	1.389	1.292	Machine tenders (machinists)	1.088	1.234	1.173
Parquetry-floor layers	1.262	1.422	1.342	Machinist operators	1.028	1.148	1.069
Wharf and bridge	.994	1.317	1.304	Photo-engravers	1.043	1.276	1.312
Cement finishers	1.113	1.379	1.366	Press assistants and feeders	.781	.837	.842
Cement finishers' helpers	.805	1.060	1.016	Pressmen	1.052	1.121	1.130
Composition roofers	.977	1.302	1.333	Cylinder	.859	.941	925
Composition roofers' helpers	695	.750	803	Platen			
Elevator constructors	1.115	1.433	1.447	Average, printing and publishing, book and job	.926	1.021	1.036
Elevator constructors' helpers	.806	1.033	1.052	<b>PRINTING AND PUBLISHING: NEWSPAPER</b>			
Engineers, portable and hoisting	1.141	1.379	1.436	Compositors:			
Glaziers	1.041	1.323	1.337	Day work	1.013	1.149	1.176
Hod carriers	.788	1.026	1.027	Night work	1.151	1.290	1.311
Inside wiremen	1.079	1.395	1.408	Machine operators, day work			
Fixture hangers	1.065	1.206	1.222	Piece-work	4.139	4.150	4.154
Lathers	7.720	9.336	9.457	Time-work	1.031	1.176	1.204
Piece-work	1.188	1.492	1.496	Machine operators, night work:			
Time-work				Piece-work	4.160	4.160	4.154
Marble setters	1.188	1.448	1.455	Time-work	1.130	1.268	1.326
Marble setters' helpers	.873	.990	1.001	Machine tenders (machinists)			
Mosaic and terrazzo workers	.978	1.291	1.351	Day work	1.064	1.144	1.167
<b>Painters</b>				Night work	1.179	1.273	1.300
Building	1.108	1.349	1.372	Machinist operators			
Fresco	1.125	1.335	1.235	Day work	1.007	1.070	1.082
Sign	1.330	1.566	1.568	Night work	1.040	1.204	1.210
Plasterers	1.306	1.628	1.632	Photo-engravers:			
Plasterers' laborers	.872	1.068	1.086	Day work	1.085	1.266	1.337
Plumbers and gas fitters	1.151	1.409	1.439	Night work	1.289	1.541	1.577
Plumbers' laborers	.879	.975	965	Pressmen, web presses:			
Sheet-metal workers	1.065	1.330	1.305	Day work	.871	1.066	1.074
Ship carpenters	.935	.860	.900	Night work	.987	1.220	1.255
Slate and tile roofers	1.224	1.535	1.538	Stereotypers			
Steam and sprinkler fitters	1.052	1.415	1.435	Day work	.922	1.007	1.007
Steam and sprinkler fitters' helpers	751	.947	.967	Night work	1.082	1.141	1.142
Stonemasons	1.297	1.563	1.583	Average, printing and publishing, newspaper	1.047	1.190	1.220
Structural-iron workers	1.109	1.464	1.465	<b>MISCELLANEOUS</b>			
Finishers	1.086	1.420	1.431	Chauffeurs	.574	703	.706
Finishers' helpers	.838	(3)	(3)	Teamsters and drivers	.590	.706	.727
Tile layers	1.140	1.454	1.453	Longshoremen	.722	817	.838
Tile layers' helpers	.798	.979	.999	Granite cutters	1.089	1.242	1.256
Average, building trades	1.068	1.323	1.330	Stonecutters	1.151	1.400	1.406
				Laundry workers	414	432	447
				Linemen	898	.991	1.007

<sup>1</sup> Except piece-work.<sup>2</sup> Per 1,000 laths<sup>3</sup> No data.<sup>4</sup> Rate per 1,000 ems.

Source Bureau of Labor Statistics, Department of Labor.

# No. 360.—EMPLOYMENT AND PAY-ROLL INDEXES IN MANUFACTURING INDUSTRIES

NOTE.—Indexes based on monthly average 1928=100 Statistics cover 54 industries comprising the 12 groups shown in Table 363 and are based on reports from nearly 12,000 establishments employing approximately 3,250,000 persons. Indexes are weighted according to relative importance of industries included. The returns cover one week in each month.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
<b>EMPLOYMENT</b>													
1923.....	106.6	108.4	110.8	110.8	110.8	110.9	109.2	106.5	108.6	108.1	107.4	105.4	108.8
1924.....	103.8	105.1	104.9	102.8	98.8	95.6	92.3	92.5	94.3	95.6	95.5	97.3	98.2
1925.....	97.9	99.7	100.4	100.2	98.9	95.0	97.2	97.8	98.9	100.4	100.7	100.8	96.2
1926.....	100.4	101.5	102.0	101.0	99.8	99.3	97.7	98.7	100.3	100.7	99.5	98.9	100.0
1927.....	97.3	99.0	99.5	98.6	97.6	97.0	95.0	95.1	95.8	95.3	93.5	92.6	96.4
1928.....	91.6	93.0	93.7	93.3	93.0	93.1	92.2	93.6	95.0	95.9	95.4	95.5	93.8
<b>PAY-ROLL TOTALS</b>													
1923.....	95.8	99.4	104.7	105.7	109.4	109.3	104.3	103.7	104.4	106.8	105.4	103.2	104.3
1924.....	98.6	103.8	103.3	101.1	96.5	90.8	84.3	87.2	89.8	92.4	91.4	95.7	94.6
1925.....	93.9	99.3	100.8	98.3	98.5	95.7	93.5	95.4	94.4	100.4	100.4	101.6	97.7
1926.....	98.0	102.2	103.4	101.5	99.8	99.7	95.2	98.7	99.3	102.9	99.6	99.8	100.0
1927.....	94.9	100.6	102.0	100.8	99.8	97.4	93.0	95.0	91.1	95.2	91.6	93.2	96.5
1928.....	89.6	93.9	95.2	93.8	94.1	94.2	91.2	94.2	95.4	99.0	96.1	97.7	94.5

Source: Bureau of Labor Statistics, Department of Labor.

# No. 361.—MANUFACTURING ESTABLISHMENTS: AVERAGE PERCENTAGE OF FULL FORCE EMPLOYED AND OF FULL TIME ACTIVE, OPERATING ESTABLISHMENTS ONLY

NOTE.—Statistics cover the same industries as Table 360, but the reports are somewhat less complete covering usually about 8,000 establishments. Data were not collected prior to March, 1924.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec.
<b>Average percentage of normal full force employed</b>												
1924.....	82	83	83	80	77	76	75	77	79	81	81	81
1925.....	82	83	83	83	82	82	82	85	84	85	85	85
1926.....	85	87	87	86	85	85	86	87	88	88	87	87
1927.....	86	87	88	88	87	87	87	87	89	88	85	84
1928.....	84	85	86	86	87	87	87	87	90	90	89	89
<b>Average percentage of full time operated</b>												
1924.....	94	92	90	88	87	88	87	88	91	92	91	92
1925.....	92	93	92	92	92	92	92	94	93	94	94	94
1926.....	93	94	94	93	93	92	96	97	98	98	97	97
1927.....	96	97	97	97	97	96	97	97	97	97	96	96
1928.....	96	96	96	96	96	97	96	97	97	98	97	98

Source: Bureau of Labor Statistics, Department of Labor.

# No. 362.—EMPLOYMENT AND PAY-ROLL INDEXES IN MANUFACTURING ESTABLISHMENTS: BY GEOGRAPHIC DIVISIONS

NOTE.—Figures are unweighted relative numbers. April, 1924, was the first month for which the bureau published a recapitulation by geographic division of the total employment figures.

[Monthly average 1928=100]

Year and month	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
<b>Employment</b>									
<b>1924</b>									
June.....	98.1	96.9	89.3	98.1	92.2	94.7	98.4	107.9	100.8
September.....	94.9	95.1	88.0	99.0	90.2	93.8	101.4	105.8	97.2
December.....	101.4	98.8	91.3	99.5	94.2	99.3	102.3	93.2	93.9
<b>1925</b>									
March.....	101.4	101.5	96.7	100.2	97.7	102.6	99.9	96.6	93.8
June.....	99.2	98.5	97.0	100.1	94.0	100.0	96.1	105.2	102.1
September.....	97.8	99.0	96.7	102.0	95.8	102.1	98.9	102.4	103.0
December.....	101.7	102.2	101.2	101.0	100.7	104.3	100.2	104.3	97.2

No. 362.—EMPLOYMENT AND PAY-ROLL INDEXES IN MANUFACTURING ESTABLISHMENTS: BY GEOGRAPHIC DIVISIONS—Continued

Year and month	New Eng- land	Middle Atlan- tic	East North Central	West North Central	South Atlan- tic	East South Central	West South Central	Moun- tain	Pacific
Employment—Continued									
1926									
March.....	104.4	102.1	103.6	99.0	102.1	102.8	98.8	95.6	96.5
June.....	98.4	99.2	99.9	100.1	98.1	98.6	100.5	103.1	102.5
September.....	99.1	99.7	100.9	102.0	100.6	98.7	101.2	103.4	101.8
December.....	99.5	98.9	94.1	98.2	101.4	97.2	99.8	100.4	97.8
1927									
January.....	98.6	96.8	93.1	96.3	100.6	94.9	97.9	97.5	94.1
February.....	99.8	97.8	97.4	96.8	102.1	95.9	98.6	94.2	94.3
March.....	99.4	97.8	99.0	96.6	102.9	95.4	97.4	93.0	97.0
April.....	98.0	96.1	99.1	96.5	103.1	94.7	96.3	94.3	98.2
May.....	96.8	94.6	98.9	97.3	101.5	93.3	94.8	97.3	99.9
June.....	95.3	94.0	97.7	99.5	100.9	93.0	94.9	99.0	101.7
July.....	94.0	92.5	94.4	98.6	99.8	91.2	93.1	100.7	100.7
August.....	93.4	92.5	95.7	98.9	99.3	92.4	93.9	99.3	101.0
September.....	95.5	93.6	94.5	98.9	101.8	92.6	95.3	98.2	100.7
October.....	95.2	93.4	93.8	98.2	101.5	93.2	93.6	96.6	100.3
November.....	93.8	91.8	90.7	94.9	100.8	91.9	92.2	97.5	97.7
December.....	92.0	90.6	91.5	93.3	99.9	92.0	90.8	93.4	94.6
1928									
January.....	91.4	88.7	93.3	92.6	98.2	90.9	89.2	88.5	90.4
February.....	92.1	89.2	97.8	95.5	98.5	92.0	89.4	89.2	91.1
March.....	90.9	89.4	100.1	96.0	100.0	91.8	89.6	90.0	93.8
April.....	89.4	88.4	100.4	95.5	98.4	92.0	89.3	91.2	97.1
May.....	86.8	88.2	102.4	96.2	96.6	90.4	88.8	94.1	98.6
June.....	85.8	88.3	102.7	98.7	96.5	90.0	89.0	97.2	99.3
July.....	85.8	87.4	102.1	97.4	94.2	86.8	90.0	97.9	97.8
August.....	86.0	87.9	105.8	97.2	96.8	88.9	90.9	97.0	98.7
September.....	88.0	89.4	107.5	97.1	98.2	90.8	92.1	97.6	101.5
October.....	90.7	91.0	107.5	97.6	98.7	90.3	91.9	98.0	100.4
November.....	91.3	91.1	104.1	95.9	99.7	91.2	92.3	97.0	97.9
December.....	91.6	91.1	104.2	96.1	99.0	91.3	90.2	95.3	95.5
Pay-roll totals									
1924									
June.....	92.6	91.9	83.4	96.6	85.9	89.2	94.9	106.6	102.6
September.....	93.2	90.8	82.7	95.7	84.3	89.3	95.3	100.2	94.8
December.....	101.7	97.5	89.2	98.7	92.9	99.6	99.9	91.5	94.4
1925									
March.....	105.2	101.3	98.3	99.6	97.6	102.0	101.1	98.6	95.8
June.....	96.3	95.1	97.0	99.8	91.2	97.6	94.1	105.0	102.3
September.....	93.4	93.8	96.3	98.6	90.9	97.8	95.1	98.3	99.9
December.....	103.0	102.4	104.3	100.6	102.4	106.4	101.5	102.3	98.4
1926									
March.....	106.7	103.2	106.5	100.4	103.1	103.8	97.6	97.2	97.2
June.....	97.4	99.6	100.2	102.2	97.4	98.7	100.5	104.3	104.6
September.....	98.2	99.4	99.4	101.2	99.6	97.0	100.8	101.0	101.2
December.....	100.1	100.4	92.1	96.4	104.0	99.3	102.9	102.6	99.0
1927									
January.....	98.5	96.0	84.7	92.1	98.7	93.6	98.1	97.2	91.9
February.....	101.3	99.4	99.2	96.5	103.4	98.1	101.0	97.6	95.2
March.....	101.5	99.8	102.9	96.5	104.1	98.1	100.3	97.6	99.0
April.....	97.6	97.3	103.4	97.3	104.4	96.4	98.6	98.5	100.4
May.....	98.2	95.4	103.2	99.6	102.0	94.8	99.8	101.6	103.4
June.....	96.0	94.1	97.4	99.9	100.3	93.7	98.5	102.1	104.0
July.....	93.6	89.8	91.2	97.3	96.9	86.7	95.0	100.8	99.0
August.....	94.2	91.8	96.5	98.4	97.5	91.8	96.8	99.8	102.1
September.....	96.7	92.3	91.7	96.3	99.9	91.8	98.0	97.9	99.1
October.....	94.8	92.4	94.4	98.1	101.1	93.3	97.9	97.8	102.9
November.....	91.4	89.7	88.7	93.0	99.2	90.0	94.6	99.0	99.1
December.....	92.0	90.6	92.3	92.1	99.4	91.1	94.7	91.2	97.9
1928									
January.....	90.1	86.8	90.2	90.3	94.7	86.6	92.9	90.3	89.8
February.....	91.6	89.8	102.4	95.8	98.0	92.4	93.5	91.3	92.7
March.....	90.2	90.6	105.4	97.4	95.5	91.9	93.0	94.1	96.6
April.....	88.0	87.4	104.9	96.1	96.2	92.1	92.3	96.9	100.2
May.....	86.0	88.8	107.3	97.3	96.4	90.5	91.6	99.8	101.8
June.....	86.1	89.0	105.7	100.5	95.9	89.3	91.6	99.8	101.8
July.....	85.4	86.2	102.3	97.4	91.9	85.4	92.9	98.8	99.4
August.....	85.8	88.5	109.8	98.2	95.7	89.0	95.1	98.7	101.5
September.....	90.5	89.8	109.7	97.0	97.1	88.3	95.4	100.1	101.6
October.....	92.9	93.4	114.8	99.5	100.7	89.9	97.6	102.6	102.4
November.....	91.6	92.1	107.2	92.2	100.7	90.2	96.3	100.9	98.7
December.....	95.3	93.5	106.7	94.9	100.9	93.0	95.3	98.7	96.6

Source: Bureau of Labor Statistics, Department of Labor.

## No. 363.—EMPLOYMENT AND PAY-ROLL INDEXES IN MAJOR GROUPS OF MANUFACTURING INDUSTRIES

NOTE.—Monthly average 1926=100. Combined index for each group is weighted according to relative importance of industries covered. Figures represent the number on the pay roll and amount of pay roll for one week in each month. See also Table 360.

Yearly average and month	Em- ployed	Pay roll	Em- ployed	Pay roll	Em- ployed	Pay roll	Em- ployed	Pay roll	Em- ployed	Pay roll	Em- ployed	Pay roll
	Food products		Textile products		Iron and steel products		Other metal products		Lumber and products		Leather and products	
1923 average.....	111 1	106 3	116 1	116 4	108 5	102 7	102 6	101 5	110 0	102 4	110 7	113 9
March.....	106 6	101 1	122 3	123 6	108 6	100 0	108 5	107 5	107 3	95 5	116 6	123 2
June.....	109 8	106 6	117 2	119 1	112 9	110 6	105 4	108 1	112 6	107 8	108 0	113 2
September.....	116 4	111 3	113 4	113 7	110 7	105 0	97 8	94 9	112 9	106 6	108 9	110 5
December.....	113 4	111 6	111 4	112 0	102 7	101 3	97 6	98 2	108 4	105 4	106 6	109 2
1924 average.....	106 4	104 4	102 4	101 0	93 8	89 1	95 1	93 0	104 4	99 6	100 3	100 6
March.....	107 7	105 1	111 5	112 8	102 8	102 4	104 2	106 9	106 6	103 2	107 4	109 5
June.....	104 9	104 2	98 4	91 9	92 5	84 3	93 6	88 0	101 2	101 2	91 9	90 1
September.....	103 1	106 2	97 2	97 2	86 8	79 3	87 2	84 9	102 9	97 9	100 3	103 9
December.....	106 5	106 7	103 0	105 1	91 8	91 0	95 8	97 0	102 1	99 0	100 6	100 6
1925 average.....	101 2	99 9	103 7	104 2	95 0	93 3	99 2	99 4	102 5	100 4	101 9	101 8
March.....	100 3	98 7	107 3	112 9	96 5	96 7	99 8	101 4	101 9	100 2	105 6	109 3
June.....	99 4	99 5	102 0	98 7	94 1	91 3	98 4	98 5	103 2	102 6	95 1	93 7
September.....	102 8	99 1	100 9	96 9	93 9	87 9	98 8	94 0	103 7	102 0	105 0	103 2
December.....	103 0	103 1	104 1	104 8	97 9	99 7	104 1	107 3	100 9	102 1	98 8	96 0
1926 average.....	100 0	100 0	100 0	100 0	100 0	100 0	100 0	100 0	100 0	100 0	100 0	100 0
March.....	98 3	98 0	104 5	108 3	101 2	103 6	105 5	108 5	98 8	98 6	101 2	102 7
June.....	98 8	100 1	97 6	94 8	100 9	101 2	98 8	99 0	101 4	102 4	94 5	94 2
September.....	102 9	102 7	97 8	96 5	100 7	98 8	98 2	95 0	101 1	102 6	104 0	106 6
December.....	100 7	101 5	101 9	103 8	97 6	99 1	96 0	97 1	97 1	98 7	99 9	97 9
1927 average.....	99 4	100 0	101 3	103 0	93 2	91 9	92 9	91 6	91 9	93 1	97 9	97 4
March.....	97 1	97 0	104 2	109 4	98 2	100 6	97 0	99 4	91 3	92 7	101 4	102 5
June.....	101 0	102 8	99 9	100 3	94 5	94 4	93 0	92 9	92 5	94 9	94 4	94 0
September.....	102 6	102 2	100 9	103 1	91 3	87 1	91 2	87 3	93 7	95 9	101 1	103 6
December.....	100 1	100 9	100 6	102 3	86 6	85 2	88 2	88 4	87 9	90 1	91 8	87 1
1928 average.....	98 4	99 8	96 3	95 6	91 5	92 8	92 8	96 1	87 8	88 8	92 8	89 7
March.....	97 3	98 9	100 3	101 2	90 0	92 5	90 7	92 1	86 2	87 6	96 5	96 8
June.....	96 9	99 5	94 1	91 6	91 7	93 3	92 0	93 7	88 3	90 2	89 3	85 0
September.....	100 0	101 2	93 6	93 2	93 2	92 9	94 2	98 2	90 1	91 7	95 1	95 7
December.....	102 1	104 4	97 7	99 5	95 0	98 0	98 6	108 2	87 6	88 3	87 8	83 6
	Paper and printing		Chemicals and allied products		Stone, clay, and glass		Tobacco products		Vehicles		Miscellaneous products	
1923 average.....	96 5	89 7	101 8	98 2	100 2	93 5	116 9	114 0	109 6	107 7	103 3	98 1
March.....	96 8	89 6	107 2	98 7	96 8	86 5	120 4	118 0	109 4	106 9	110 6	103 0
June.....	96 7	90 0	100 6	99 6	105 5	99 3	117 1	114 5	112 5	111 6	107 4	108 0
September.....	96 6	89 1	101 3	100 0	102 2	97 3	115 7	110 6	111 3	107 5	96 6	93 3
December.....	98 3	93 2	99 0	96 8	98 5	96 2	117 3	121 3	106 5	105 5	98 6	94 4
1924 average.....	96 7	91 7	93 1	91 0	97 0	95 2	109 8	108 9	97 2	94 8	90 7	89 0
March.....	97 7	93 5	104 2	99 6	99 4	93 9	111 4	111 7	105 2	104 0	98 9	97 4
June.....	95 9	90 6	86 0	87 0	99 7	99 6	107 7	108 8	93 5	90 9	87 6	84 5
September.....	96 3	90 8	80 4	87 4	95 3	91 7	110 9	110 1	92 3	87 9	84 9	82 9
December.....	98 2	95 2	91 7	90 3	94 6	94 3	112 5	116 9	93 6	92 8	90 1	88 7
1925 average.....	97 3	94 3	95 8	94 2	97 9	97 3	107 5	105 7	99 8	100 7	94 6	92 8
March.....	98 0	95 1	100 6	98 5	95 8	95 8	109 3	103 1	98 6	103 0	96 3	96 3
June.....	95 9	92 0	88 5	89 4	101 0	99 6	105 8	105 2	99 0	99 8	93 9	91 1
September.....	96 7	91 9	98 9	93 9	100 1	97 2	107 5	104 8	101 0	98 0	93 1	88 9
December.....	100 0	100 9	99 6	98 8	98 8	99 9	111 0	115 4	101 6	101 4	97 3	97 1
1926 average.....	100 0	100 0	100 0	100 0	100 0	100 0	100 0	100 0	100 0	100 0	100 0	100 0
March.....	99 5	100 2	106 9	103 9	96 6	97 6	103 0	102 7	105 4	103 0	101 5	101 0
June.....	95 9	99 4	95 2	98 2	104 3	105 6	101 3	101 0	101 0	102 0	97 9	98 4
September.....	100 4	99 4	101 9	100 7	103 9	101 6	98 4	101 6	100 1	98 4	99 6	97 4
December.....	102 4	104 3	98 6	101 7	96 7	98 5	100 8	102 4	90 6	88 7	104 3	107 7
1927 average.....	100 1	101 2	96 6	99 1	94 5	94 2	98 1	97 1	90 8	91 6	99 5	100 9
March.....	100 8	102 4	106 7	108 1	95 1	96 6	97 5	93 6	94 6	98 4	105 9	109 3
June.....	98 8	99 6	91 8	98 2	99 3	99 2	98 8	100 1	93 3	92 5	102 0	102 9
September.....	99 8	100 2	95 3	96 8	95 3	93 4	102 6	104 2	89 6	87 9	94 4	91 5
December.....	101 7	104 9	91 9	96 5	89 1	89 0	98 7	100 2	85 0	87 1	93 4	97 9
1928 average.....	99 2	101 5	93 4	95 9	89 7	89 6	96 0	93 5	95 8	98 3	91 6	91 9
March.....	98 8	101 4	101 7	100 7	87 3	87 1	96 0	91 4	93 2	99 1	89 7	90 4
June.....	98 0	100 8	87 5	91 7	93 4	92 8	95 3	94 9	97 7	99 8	90 0	92 0
September.....	98 6	100 9	94 7	96 6	93 4	91 8	98 9	98 2	101 5	101 4	91 7	91 8
December.....	101 2	105 1	95 1	97 2	87 3	88 4	98 0	99 5	94 6	96 4	97 9	100 1

# No. 364.—EMPLOYMENT AND PAY-ROLL INDEXES IN MANUFACTURING ESTABLISHMENTS: ANNUAL AVERAGES BY INDUSTRIES

NOTE.—Monthly average 1926=100. For general index of all industries and for group totals see Tables 360 and 363, respectively

Industry group and industry	Employment						Pay-roll totals					
	1923	1924	1925	1926	1927	1928	1923	1924	1925	1926	1927	1928
<b>Food and kindred products</b>												
Slaughtering and meat packing	122.9	115.1	104.4	100.0	99.5	99.5	118.4	111.8	102.6	100.0	99.9	101.0
Confectionery	116.3	103.2	98.1	100.0	96.5	93.0	107.0	99.9	96.4	100.0	97.9	93.3
Ice cream	103.9	100.3	101.3	100.0	94.0	92.4	95.8	93.1	98.3	100.0	93.4	93.1
Flour	114.2	108.1	103.1	100.0	99.3	100.0	110.9	108.2	102.5	100.0	99.4	102.1
Baking	99.2	100.5	98.7	100.0	101.4	100.9	94.8	98.4	97.1	100.0	102.2	101.6
Sugar refining, cane	106.8	104.6	104.5	100.0	98.8	91.1	104.6	105.4	104.6	100.0	98.8	94.9
<b>Textiles and products:</b>												
Cotton goods	120.3	99.9	101.1	100.0	105.0	95.2	123.5	99.6	101.1	100.0	108.5	91.7
Hosiery and knit goods	102.1	92.6	100.2	100.0	99.0	94.7	91.3	82.9	96.4	100.0	102.2	97.3
Silk goods	99.8	94.1	103.1	100.0	98.4	95.9	93.9	88.6	102.7	100.0	99.2	100.2
Woolen and worsted goods	124.5	113.3	110.7	100.0	99.7	95.0	126.7	114.1	110.6	100.0	100.6	94.4
Carpets and rugs	106.5	98.1	100.7	100.0	102.5	101.0	110.1	95.2	101.2	100.0	104.1	95.9
Dyeing and finishing textiles	102.1	94.0	101.7	100.0	108.7	99.5	99.9	91.8	102.3	100.0	102.8	101.0
Clothing, men's	118.6	106.9	103.1	100.0	97.8	92.2	128.4	111.0	105.8	100.0	97.3	89.0
Shirts and collars	118.9	100.6	103.3	100.0	95.0	92.2	117.1	97.5	103.2	100.0	96.3	89.9
Clothing, women's	126.3	111.9	105.6	100.0	105.4	105.4	124.4	108.6	109.3	100.0	107.4	105.2
Millinery and lace goods	138.1	120.3	117.1	100.0	95.6	93.5	133.1	117.1	115.8	100.0	96.8	92.7
<b>Iron and steel and products</b>												
Iron and steel	102.1	95.4	97.9	100.0	92.9	90.9	97.3	91.3	96.4	100.0	91.4	92.7
Cast-iron pipe	94.3	98.2	95.6	100.0	89.8	80.1	92.8	97.8	96.2	100.0	88.1	75.9
Structural ironwork	100.0	91.7	92.5	100.0	94.9	95.0	93.9	86.3	91.5	100.0	95.0	97.9
Foundry and machine-shop products	115.3	93.0	93.1	100.0	93.8	92.3	110.7	87.2	90.6	100.0	92.4	92.8
Hardware	113.4	104.2	103.6	100.0	92.2	88.9	102.0	95.7	98.4	100.0	90.9	88.4
Machine tools	98.1	82.0	85.8	100.0	92.8	100.8	88.5	74.9	83.4	100.0	92.2	107.5
Steam fittings and steam and hot-water heating apparatus	103.3	98.6	100.1	100.0	92.5	82.2	98.0	95.4	97.4	100.0	91.9	81.9
Stoves	116.3	100.3	97.8	100.0	91.2	87.6	113.9	101.0	97.8	100.0	90.4	84.7
<b>Metal products:</b>												
Stamped and enameled ware	105.2	94.7	99.0	100.0	88.9	88.8	109.3	93.2	100.2	100.0	90.6	90.4
Brass, bronze, and copper	101.3	95.2	99.2	100.0	94.5	94.4	98.9	92.9	99.1	100.0	92.0	98.0
<b>Lumber and its products:</b>												
Lumber, sawmills	115.1	108.0	103.6	100.0	91.0	86.7	106.5	102.8	101.7	100.0	92.4	88.0
Lumber, millwork	101.5	101.2	103.0	100.0	89.2	85.5	95.5	98.0	101.8	100.0	89.2	85.6
Furniture	100.4	95.2	99.1	100.0	96.1	92.5	94.2	90.7	95.6	100.0	98.2	93.2
<b>Leather and its products:</b>												
Leather	109.6	96.9	98.7	100.0	98.4	95.4	107.0	95.7	97.5	100.0	97.2	93.7
Boots and shoes	111.1	101.6	102.9	100.0	97.7	91.9	117.0	102.8	103.6	100.0	97.6	88.0
<b>Paper and printing:</b>												
Paper and pulp	104.6	98.6	98.7	100.0	97.5	94.4	97.6	94.4	96.8	100.0	96.6	94.9
Paper boxes	98.9	98.2	98.8	100.0	96.8	94.0	91.3	93.3	95.6	100.0	99.0	99.4
Printing, book and job	96.1	97.9	97.5	100.0	100.3	99.2	87.8	90.8	93.1	100.0	102.1	101.6
Printing, newspapers	89.5	93.1	95.4	100.0	103.4	105.2	84.5	89.7	93.0	100.0	104.6	107.4
<b>Chemicals and allied products:</b>												
Chemicals	104.9	96.2	97.3	100.0	100.0	99.3	96.6	92.5	94.3	100.0	103.7	108.3
Fertilizers	96.2	86.9	95.1	100.0	91.2	95.4	91.8	83.6	90.6	100.0	94.0	97.1
Petroleum refining	99.7	91.8	94.0	100.0	94.6	84.8	102.1	91.7	95.2	100.0	95.6	87.2
<b>Stone, clay, and glass.</b>												
Cement	109.0	108.9	105.3	100.0	95.8	87.7	104.2	107.9	104.9	100.0	96.5	88.3
Brick, tile, and terra cotta	99.3	97.4	98.9	100.0	94.3	84.3	95.1	98.5	99.1	100.0	94.1	82.8
Pottery	93.7	100.6	98.3	100.0	94.5	95.3	85.8	95.1	96.3	100.0	94.2	93.4
Glass	101.1	91.4	94.4	100.0	94.2	92.9	92.6	88.2	93.4	100.0	93.4	94.3
<b>Tobacco products:</b>												
Chewing and smoking tobacco and snuff	105.4	105.2	97.0	100.0	97.7	95.2	100.1	101.2	98.3	100.0	97.7	94.1
Cigars and cigarettes	118.3	110.4	109.0	100.0	98.1	96.0	115.9	109.9	106.7	100.0	97.0	93.4
<b>Vehicles:</b>												
Automobiles	93.0	87.0	99.0	100.0	91.2	111.3	92.0	83.8	102.4	100.0	90.3	114.4
Carriages and wagons	108.8	90.8	100.2	100.0	78.7	76.7	108.3	95.0	100.4	100.0	83.6	82.1
Car building and repairing												
Electric railroad	112.7	100.0	99.6	100.0	100.9	94.9	110.1	97.8	100.5	100.0	101.1	96.2
Steam-railroad	123.8	105.8	100.6	100.0	90.3	83.5	120.9	102.8	99.4	100.0	92.3	86.4
<b>Miscellaneous</b>												
Agricultural implements	101.3	81.2	93.6	100.0	91.9	106.8	89.8	75.2	90.8	100.0	92.2	111.8
Electrical machinery, apparatus, and supplies	101.3	95.1	92.1	100.0	95.1	93.9	97.0	94.7	92.2	100.0	95.7	95.9
Pianos and organs	105.3	99.9	98.9	100.0	90.4	77.1	94.9	96.6	97.8	100.0	87.4	74.3
Rubber boots and shoes	116.7	82.7	97.1	100.0	106.3	101.1	107.2	76.6	97.7	100.0	107.7	101.0
Automobile tires	91.1	88.6	102.2	100.0	97.3	103.3	88.7	88.1	100.4	100.0	98.2	105.7
Shipbuilding	103.6	90.2	92.6	100.0	104.8	82.8	103.0	88.8	90.3	100.0	105.8	83.0

Source. Bureau of Labor Statistics, Department of Labor.



## No. 365.—INDEXES OF FACTORY EMPLOYMENT IN SPECIFIED STATES

[Index numbers for all States relative to 1923 monthly average as 100, except Massachusetts which is relative to 1919-1923 average as 100]

Year and month	Employees on pay roll						Amount of pay roll			
	Massachusetts <sup>1</sup>	New York <sup>2</sup>	New Jersey <sup>3</sup>	Pennsylvania <sup>3</sup>	Illinois <sup>4</sup>	Wisconsin <sup>5</sup>	New York <sup>2</sup>	New Jersey <sup>3</sup>	Pennsylvania <sup>3</sup>	Wisconsin <sup>5</sup>
Monthly average										
1919	109.2	103.5	-----	-----	-----	-----	89.3	-----	-----	-----
1920	106.4	107.4	-----	-----	-----	-----	110.9	-----	-----	-----
1921	88.0	83.9	-----	-----	86.5	-----	79.2	-----	-----	-----
1922	93.7	90.3	-----	-----	90.6	-----	83.1	-----	-----	-----
1923	102.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1924	90.2	91.2	90.4	88.0	91.6	95.1	92.7	90.0	86.2	87.1
1925	90.5	90.5	90.1	91.0	88.7	99.3	93.9	90.7	89.5	105.9
1926	92.1	90.7	95.6	92.0	91.7	99.5	96.6	101.2	93.4	106.8
1927	87.6	87.0	95.5	85.6	86.3	94.8	93.6	103.6	87.2	101.4
1928	78.1	83.5	92.1	80.7	84.7	94.2	90.3	100.7	82.8	102.4
1923										
March	106.1	102.5	104.5	100.8	101.6	100.4	101.2	105.1	99.7	97.1
June	102.4	100.3	101.7	101.2	103.0	100.9	102.6	106.3	105.4	104.1
September	100.8	99.1	96.9	101.6	98.7	99.9	99.8	94.5	101.2	101.2
December	97.3	97.8	95.8	96.8	97.6	97.2	100.5	97.4	99.2	98.5
1924										
March	95.4	98.0	95.2	94.5	98.0	101.7	101.3	96.6	95.2	107.1
June	85.3	88.4	88.5	85.8	91.2	90.4	88.3	88.6	80.3	90.2
September	88.0	88.4	87.8	84.9	88.0	92.3	91.0	87.0	79.7	92.1
December	91.7	90.2	90.5	89.6	88.4	94.6	93.5	91.0	91.1	99.1
1925										
March	92.5	92.3	88.5	92.5	89.6	97.7	96.4	89.3	92.4	103.6
June	87.1	88.7	86.7	90.4	87.4	99.4	91.0	87.7	87.4	105.8
September	90.1	90.3	92.5	90.2	88.5	100.7	93.9	90.0	85.2	106.4
December	92.4	93.2	96.9	92.5	90.3	100.4	99.4	100.9	94.7	108.1
1926										
March	95.4	93.3	95.2	92.7	92.1	101.3	99.5	98.9	95.7	112.3
June	89.4	90.3	90.3	90.7	81.5	98.4	95.5	96.1	93.0	107.3
September	92.1	90.4	100.0	93.0	93.2	100.6	97.3	106.0	92.7	106.3
December	91.3	89.4	100.1	91.1	90.3	94.3	96.7	110.7	95.5	97.9
1927										
January	90.7	87.7	99.5	89.1	88.6	93.5	95.1	106.8	90.2	96.9
February	92.3	88.8	99.2	89.3	89.1	96.2	96.0	108.8	94.2	104.7
March	91.4	89.3	98.3	89.5	88.9	96.9	97.6	108.4	94.0	104.2
April	89.3	88.1	87.0	86.9	88.3	95.1	94.3	106.1	91.6	102.9
May	87.7	86.8	94.4	87.0	87.8	93.4	92.9	102.4	89.4	99.4
June	85.9	86.6	94.1	85.6	87.5	94.1	92.7	102.8	87.3	102.2
July	83.9	85.1	93.0	84.1	84.3	97.1	90.4	98.0	81.1	98.1
August	85.9	85.7	93.4	83.9	85.5	98.7	92.2	101.4	84.8	106.9
September	87.1	87.5	94.8	83.8	85.3	95.9	95.0	102.1	82.9	101.7
October	87.4	87.6	94.7	83.6	85.3	94.9	94.2	102.4	84.7	100.6
November	86.2	85.9	93.9	83.0	83.2	90.9	90.7	100.4	83.6	99.6
December	83.0	84.4	93.3	81.2	82.2	90.7	91.7	103.3	82.7	99.5
1928										
January	82.3	82.6	91.2	80.2	80.5	90.3	88.6	98.4	78.9	88.9
February	83.3	83.5	90.7	81.6	82.7	92.1	89.4	99.6	85.4	99.1
March	82.1	83.9	90.2	81.6	83.7	92.6	91.3	98.7	84.7	106.7
April	80.4	82.9	89.6	80.0	82.6	91.8	87.6	96.4	79.7	97.6
May	75.4	82.0	90.0	80.0	83.2	91.8	87.8	98.0	83.0	99.9
June	73.6	82.2	89.9	80.2	85.1	92.9	89.0	98.2	82.6	104.8
July	72.9	81.5	89.8	78.8	83.4	96.8	87.2	96.1	76.2	98.7
August	74.2	82.5	90.7	80.8	85.6	97.9	89.0	98.5	83.1	108.7
September	75.6	84.3	94.1	81.4	86.8	97.1	92.0	102.3	82.9	106.5
October	73.8	86.0	94.6	81.6	86.9	97.0	94.0	105.1	87.0	110.2
November	70.3	85.8	96.8	81.5	87.3	95.7	93.5	106.8	84.9	107.3
December	78.9	85.3	97.9	80.4	88.1	94.8	94.3	109.9	84.6	100.5

<sup>1</sup> Compiled by the Massachusetts Department of Labor and Industries, Division of Statistics, from about 1,000 firms each month. Data are connected by the chain relative method.<sup>2</sup> Compiled by the New York State Department of Labor from reports of 1,648 firms employing more than one-third of the factory workers of the State.<sup>3</sup> Compiled by the Federal Reserve Bank of Philadelphia from reports of about 1,000 plants each month in the States of New Jersey, Pennsylvania, and Delaware. Since August, 1926, figures for New Jersey are from the New Jersey Department of Labor.<sup>4</sup> Compiled from data furnished by the Illinois Department of Labor from reports by about 1,400 manufacturing establishments, employing about 400,000 people, based on the pay roll nearest the 15th of the month.<sup>5</sup> Compiled by the Industrial Commission of Wisconsin, based on link relatives from reports of about 850 manufacturing firms.<sup>6</sup> Index number represents 5 months' average, August to December, inclusive.

Source: Department of Commerce, Survey of Current Business.

## No. 366.—WEEKLY EARNINGS OF FACTORY LABOR IN SPECIFIED STATES

NOTE.—Index numbers relative to 1923, except for New York which is relative to an average of the seven months June to December, 1914. For original sources of data, numbers of firms reporting, etc., in each State, see notes 2 to 5, Table 365

Year and month	Average amount per week			Index numbers					
	New York	Illinois	Wisconsin	New York	New Jersey	Pennsylvania	Delaware	Illinois	Wisconsin
Monthly average									
1919	\$23.50			188.3					95.9
1920	28.15		\$28.58	225.0					116.5
1921	25.72		22.80	206.1					92.8
1922	25.04	\$24.70	21.66	200.6				91.3	90.0
1923	27.24	27.07	23.97	218.3	100.0	100.0	100.0	100.0	100.0
1924	27.68	27.55	24.40	221.8	99.6	97.1	100.5	101.8	101.5
1925	28.26	27.93	25.56	226.4	100.8	98.3	98.9	103.2	106.6
1926	29.02	28.67	25.67	232.5	106.1	101.2	101.3	105.9	107.1
1927	29.30	28.52	25.45	234.8	109.5	101.3	102.7	105.4	106.2
1928	29.44	28.56	26.12	235.9	110.0	101.9	102.4	105.5	109.7
1926									
March	29.04	26.68	26.56	232.7	104.0	103.1	100.6	105.9	110.8
June	28.99	29.02	26.13	232.3	106.9	102.2	103.0	107.2	109.0
September	29.31	27.95	25.32	234.9	106.4	99.2	99.9	103.3	105.6
December	29.47	28.87	24.61	236.1	111.1	104.1	106.2	106.6	102.8
1927									
March	29.78	28.72	25.80	238.0	110.3	104.5	103.9	106.1	107.6
June	29.17	29.27	26.05	233.7	110.0	101.6	102.7	108.1	108.7
September	29.57	27.65	25.40	236.9	108.5	98.3	100.9	102.1	105.9
December	29.57	28.15	25.24	237.1	111.4	101.3	106.0	104.0	105.3
1928									
March	29.64	28.48	27.62	237.5	110.1	103.5	103.8	105.2	115.2
June	29.48	29.28	27.03	236.2	110.0	102.2	103.4	108.2	112.8
September	29.72	28.31	26.30	238.1	109.5	101.1	100.7	104.6	109.7
December	30.12	29.55	25.40	241.3	113.1	104.6	107.9	109.2	106.0

<sup>1</sup> Average of last 6 months of the year

Source: Department of Commerce, Survey of Current Business

## No. 367.—AVERAGE WEEKLY AND HOURLY EARNINGS: ALL WAGE EARNERS AND CLASSIFIED GROUPS OF LABOR, 25 MANUFACTURING INDUSTRIES

Year	All wage earners		Male, unskilled		Male, skilled and semiskilled		Women	
	Actual amount	Index number	Actual amount	Index number	Actual amount	Index number	Actual amount	Index number
WEEKLY EARNINGS								
1914 (July)	\$12.54	100	\$10.71	100	\$14.16	100	\$7.84	100
1920 <sup>1</sup>	29.52	235	27.11	253	33.31	235	18.27	233
1921	23.60	188	20.48	191	26.56	188	16.07	205
1922 <sup>2</sup>	24.04	192	20.53	192	27.43	194	16.00	204
1923	26.54	212	22.59	211	30.18	213	17.46	223
1924	26.28	210	22.97	215	30.01	212	16.72	213
1925	26.93	215	23.74	222	30.89	217	17.21	220
1926	27.16	217	23.97	224	31.23	221	17.24	220
1927	27.22	217	24.40	223	31.14	220	17.32	221
1928	27.42	218	24.85	232	31.71	224	17.15	219
HOURLY EARNINGS								
1914 (July)	.245	100	.203	100	.280	100	.154	100
1920 <sup>1</sup>	.608	247	.547	269	.692	247	.421	274
1921	.523	214	.446	220	.594	212	.368	239
1922 <sup>2</sup>	.493	202	.409	201	.562	201	.355	231
1923	.540	221	.451	222	.616	220	.388	252
1924	.561	229	.473	233	.638	223	.391	254
1925	.568	228	.469	232	.641	230	.390	253
1926	.562	230	.477	235	.647	231	.393	253
1927	.570	233	.490	241	.652	233	.400	260
1928	.570	233	.494	243	.658	235	.398	258

<sup>1</sup> Average of last 7 months

<sup>2</sup> Average of last 6 months.

Source: National Industrial Conference Board, Inc.

## 16. POSTAL SERVICE

Postal statistics, unless otherwise noted, include data for outlying territories and possessions except Philippine Islands and Canal Zone

### No. 368.—UNITED STATES POSTAL SERVICE, 1800 TO 1928

Year ended June 30—	Number of post offices	Mileage of post routes <sup>1</sup>	Finances, thousands of dollars			Revenue per capita, dollars	Money orders issued, thousands of dollars		Number of ordinary postage stamps issued, millions	Number of pieces of mail handled, millions <sup>4</sup>
			Gross revenue	Gross expenditure	Surplus (+) or deficit (—) <sup>2</sup>		Domes- tic <sup>3</sup>	Inter- national <sup>3</sup>		
1800.....	903	20,817	281	214	+67	-----	-----	-----	-----	-----
1810.....	2,300	36,406	552	496	+56	-----	-----	-----	-----	-----
1820.....	4,500	72,492	1,112	1,161	-49	-----	-----	-----	-----	-----
1830.....	8,450	115,176	1,851	1,933	-82	-----	-----	-----	-----	-----
1840.....	13,468	155,739	4,544	4,718	-175	0.27	-----	-----	-----	-----
1850.....	18,417	178,672	5,500	5,213	+287	20	-----	-----	2	-----
1860.....	28,408	240,594	8,518	19,171	-10,653	27	-----	-----	216	-----
1865.....	20,560	142,340	14,556	13,695	+917	42	61,300	-----	387	-----
1870.....	23,492	231,232	18,880	23,999	-5,098	.49	34,054	7.22	463	-----
1875.....	35,547	277,873	26,791	33,611	-6,820	.61	77,431	1.965	682	-----
1880.....	42,969	343,888	33,315	36,543	-3,222	.66	100,353	3.464	878	-----
1885.....	61,252	395,251	42,661	50,046	-7,485	.76	117,859	6.840	1,465	-----
1890.....	62,401	427,990	60,882	66,260	-5,401	.97	114,363	13,230	2,220	4,005
1891.....	64,329	439,027	65,932	73,060	-7,151	1.03	119,122	14,444	2,398	4,370
1892.....	67,119	447,891	70,930	76,981	-6,111	1.09	120,067	15,120	2,543	4,777
1893.....	68,403	453,833	75,897	81,582	-5,717	1.14	127,576	16,342	2,750	5,022
1894.....	69,805	454,746	75,080	84,994	-9,978	1.11	138,794	13,792	2,602	4,919
1895.....	70,064	456,026	76,983	87,180	-10,230	1.12	156,709	12,906	2,795	5,134
1896.....	70,360	463,313	82,499	90,933	-8,444	1.17	172,101	13,853	3,025	5,694
1897.....	71,022	470,032	82,665	94,077	-11,432	1.15	174,483	13,588	3,064	5,781
1898.....	73,570	450,461	89,013	98,034	-9,055	1.22	191,354	13,240	3,418	6,214
1899.....	75,000	496,948	95,021	101,632	-6,630	1.28	211,214	13,745	3,693	6,576
1900.....	75,688	500,989	102,555	107,740	-5,410	1.34	238,921	16,749	3,999	7,130
1901.....	76,945	511,608	111,631	115,555	-3,982	1.43	274,546	20,073	4,239	7,424
1902.....	75,924	507,540	121,848	124,786	-2,961	1.53	313,551	22,974	4,621	8,085
1903.....	74,169	506,268	134,224	138,784	-4,587	1.66	353,628	35,238	5,271	8,887
1904.....	71,131	496,818	143,583	152,362	-8,813	1.74	378,778	42,550	5,331	9,502
1905.....	68,131	486,805	152,827	167,399	-14,594	1.81	396,903	47,516	5,751	10,188
1906.....	65,600	478,711	167,933	178,450	-10,543	1.96	444,516	63,048	6,284	11,361
1907.....	62,658	463,406	183,585	190,238	-6,692	2.11	479,650	84,081	7,061	12,256
1908.....	61,158	450,738	191,479	208,352	-16,910	2.15	498,700	88,972	7,651	13,364
1909.....	60,144	448,618	203,568	221,004	-17,480	2.24	491,075	76,755	8,732	14,005
1910.....	59,580	447,998	224,129	229,977	-5,881	2.43	547,994	99,743	9,067	14,850
1911.....	59,237	435,488	237,640	237,649	-219	2.53	578,111	109,605	10,046	16,901
1912.....	58,729	436,469	246,744	248,525	-1,786	2.58	583,337	97,660	9,929	17,589
1913.....	58,020	436,293	266,620	262,068	+4,511	2.74	624,489	102,668	10,813	18,567
1914.....	56,810	436,597	287,935	283,544	+4,376	2.91	667,231	101,663	11,112	-----
1915.....	56,380	433,334	287,248	298,546	-11,333	2.85	656,139	60,772	11,226	-----
1916.....	55,935	426,970	312,058	306,204	+5,859	3.05	719,365	46,357	11,672	-----
1917.....	55,414	454,835	329,726	319,839	+9,886	3.18	813,319	41,645	12,452	-----
1918 <sup>5</sup> .....	54,347	465,371	388,976	324,834	+64,127	3.70	904,650	35,865	13,066	-----
1919 <sup>6</sup> .....	53,084	455,498	436,239	382,498	+53,735	4.11	1,109,613	39,765	15,020	-----
1920.....	52,641	435,342	437,160	454,323	-17,270	4.10	1,332,700	32,960	13,213	-----
1921.....	52,163	434,349	463,491	620,994	-157,518	4.28	1,305,370	24,399	13,570	-----
1922.....	51,970	454,901	484,854	545,644	-60,815	4.41	1,205,827	20,651	14,262	-----
1923.....	51,613	460,171	532,828	556,851	-24,065	4.78	1,376,461	34,119	15,478	22,321
1924.....	51,266	467,896	572,949	587,377	-14,464	5.08	1,610,705	50,615	15,954	24,338
1925.....	50,957	464,269	599,591	639,282	-39,745	5.28	1,532,567	52,550	17,387	25,835
1926.....	50,601	470,779	659,820	679,704	-19,972	5.63	1,590,486	63,172	16,313	25,484
1927.....	50,266	478,662	683,122	714,577	-31,506	5.70	1,477,580	68,952	16,060	26,687
1928.....	49,944	487,778	693,634	725,700	-32,121	5.78	1,630,157	71,520	16,676	26,337

<sup>1</sup> Not counting rural free delivery routes

<sup>2</sup> Audited postal surplus or deficit which is greater or less than excess of receipts or expenditures by the amount of adjusted losses and contingencies

<sup>3</sup> International includes foreign countries on domestic basis For explanation see note on Table 370

<sup>4</sup> Data are for continental United States and are estimates except in 1923 and beginning with 1926, when figures are accurate calculations No estimates made from 1914 to 1922, inclusive

<sup>5</sup> Postage stamps first issued under act of Mar. 3, 1847, and placed on sale at New York July 1, 1847

<sup>6</sup> From Nov. 1, 1864, when money-order system first went into operation, to June 30, 1865

<sup>7</sup> From Sept. 1, 1869, to June 30, 1870 International money orders first issued under convention of Oct. 12, 1867

<sup>8</sup> Gross revenues of department for 1918 and 1919 include \$44,500,000 and \$71,262,000, respectively, war-tax revenue accruing from increased postage.

Source Annual Reports of the Postmaster General.

## No. 369.—REVENUES, UNITED STATES POSTAL SERVICE

[All figures in thousands of dollars]

Item	Year ended June 30—							
	1910	1915	1920	1924	1925	1926	1927	1928
Total.....	224, 129	287, 248	437, 150	572, 949	599, 591	659, 820	683, 122	693, 634
Ordinary postal revenue.....	219, 339	279, 460	424, 406	553, 610	585, 333	641, 658	664, 603	675, 043
Stamps, postal cards, etc. <sup>1</sup> .....	202, 065	256, 037	370, 587	483, 372	507, 572	552, 525	568, 512	576, 199
Second-class postage paid in money (pound rates) <sup>1</sup> .....	8, 174	10, 468	25, 100	20, 254	29, 619	31, 986	32, 884	32, 651
Other postage paid in money under permit.....	4, 418	7, 527	12, 960	32, 286	39, 301	47, 839	53, 503	55, 986
Box rents.....	4, 139	4, 981	6, 145	7, 552	7, 817	8, 078	8, 369	8, 461
Miscellaneous.....	512	448	614	1, 147	1, 024	1, 229	1, 335	1, 746
Money-order revenues.....	4, 790	7, 175	10, 314	11, 249	12, 909	16, 715	16, 985	17, 021
Revenue from postal savings.....	-----	612	2, 430	8, 089	1, 349	1, 446	1, 534	1, 570

<sup>1</sup> For volume of this item, see Table 374

## No. 370.—POSTAL MONEY-ORDER BUSINESS

NOTE.—For revenues from money orders, see Table 369. For value of orders issued for other years, see Table 368. Money orders are exchanged on a domestic basis not only within this country, but with its outlying possessions, Canada, Cuba, and numerous islands and minor countries neighboring the United States. International-basis orders are exchanged between the United States and its outlying possessions, on the one hand, and other than "domestic basis" foreign countries, on the other. In this table, however, "international" includes money orders exchanged between the United States and "domestic basis" foreign countries, and these are not included in "Domestic"

Item	Year ended June 30—							
	1910	1915	1920	1924	1925	1926	1927	1928
Number of money-order offices.....	51, 791	55, 670	54, 395	54, 195	54, 269	55, 589	54, 616	54, 803
DOMESTIC <sup>1</sup>								
Orders issued								
Number (1,000).....	76, 918	105, 073	148, 491	188, 552	197, 054	193, 410	194, 217	196, 287
Amount (1,000 dollars).....	547, 994	656, 139	1, 332, 700	1, 510, 705	1, 532, 567	1, 590, 486	1, 647, 580	1, 630, 157
Orders paid								
Number (1,000).....	76, 496	103, 884	147, 520	187, 835	196, 038	193, 695	195, 041	196, 932
Amount (1,000 dollars).....	545, 632	652, 786	1, 333, 046	1, 505, 606	1, 531, 597	1, 590, 452	1, 647, 113	1, 629, 443
Excess of issues: <sup>2</sup>								
Number (1,000).....	422	1, 190	971	717	1, 015	—285	—825	—644
Amount (1,000 dollars).....	2, 362	1, 353	—346	5, 100	970	34	468	714
INTERNATIONAL <sup>3,4</sup>								
Orders issued								
Number (1,000).....	4, 500	3, 055	1, 852	2, 709	2, 966	3, 323	3, 734	3, 843
Amount (1,000 dollars).....	99, 743	60, 772	32, 960	50, 615	52, 650	63, 172	68, 952	71, 520
Orders paid								
Number (1,000).....	1, 956	2, 217	1, 508	1, 838	1, 765	2, 026	1, 955	2, 129
Amount (1,000 dollars).....	27, 244	24, 743	25, 362	21, 453	19, 755	22, 983	23, 886	26, 402
Excess of issues:								
Number (1,000).....	2, 544	837	343	871	1, 201	1, 297	1, 779	1, 714
Amount (1,000 dollars).....	72, 499	36, 029	7, 598	29, 162	32, 886	40, 188	45, 066	45, 119
FOREIGN "DOMESTIC BASIS" <sup>5</sup>								
Paid in foreign countries								
Number (1,000).....	667	655	601	890	938	965	990	1, 049
Amount (1,000 dollars).....	10, 184	9, 110	9, 568	16, 387	16, 920	20, 019	19, 718	20, 323
Paid in the United States								
Number (1,000).....	1, 566	1, 936	1, 246	1, 603	1, 498	1, 691	1, 574	1, 753
Amount (1,000 dollars).....	17, 766	18, 586	17, 916	15, 910	16, 118	17, 472	17, 723	19, 101

<sup>1</sup> Domestic money orders first issued Nov. 1, 1864, under act of Congress approved May 17, 1864<sup>2</sup> Minus sign indicates excess of payments<sup>3</sup> Includes foreign countries on "domestic basis"<sup>4</sup> International money orders first issued Sept. 1, 1869, under Postal Convention of Oct. 12, 1867.<sup>5</sup> Included under "International" above

Sources of Tables 369 and 370: Annual Reports of the Postmaster General.

No. 371.—EXPENDITURES, UNITED STATES POSTAL SERVICE

NOTE.—All figures in thousands of dollars. For total expenditures see Table 368. Data cover expenditures during the specified year ended June 30, whether on account of that fiscal year or of previous years.

Item	1910	1915	1920	1924	1925	1926	1927	1928
Service in post offices (total).....	107,771	139,937	234,102	304,764	333,046	371,127	392,141	402,210
Salaries of postmasters.....	27,514	30,100	40,108	45,434	47,562	49,807	50,711	50,626
Salaries of clerks, etc.....	38,015	53,317	102,319	135,244	153,336	172,323	182,778	187,824
City delivery service.....	31,806	42,668	63,626	84,285	93,161	107,134	114,795	118,856
All other expenditures.....	10,405	13,552	28,049	30,801	41,987	41,801	43,827	44,904
Railway Mail Service.....	19,859	28,408	38,711	48,901	52,906	56,236	58,051	58,061
Rural Delivery Service.....	37,074	49,806	75,794	84,105	93,163	101,690	104,445	105,014
Transportation of domestic mail.....	61,940	76,914	99,520	138,005	142,141	139,428	145,400	146,154
By railroads.....	49,465	59,576	70,714	99,008	98,720	96,320	99,350	98,935
By other means.....	12,535	17,338	28,805	38,998	42,421	44,108	46,050	47,219
Transportation foreign mail.....	3,204	3,273	5,912	8,033	9,175	7,385	10,534	9,624
Payment account of invalid money orders.....	600	208	284	139	138	136	127	146
Post Office Department.....	-----	-----	-----	3,430	3,712	3,701	3,880	3,871

<sup>1</sup> Paid out of the General Treasury prior to 1923.

No. 372.—TRANSPORTATION OF DOMESTIC MAILS

NOTE.—Amounts, except as indicated, in thousands of dollars. Since Nov. 1, 1916, all service on steam railroads is authorized and paid for under the space basis system, formerly, payments were based on a system of quadrennial weighings. Railway mail space units of service vary in size and character and may consist of a car, a section of a car, or a closed pouch carried on a car. Some cars are railway post offices, others are for storage only, over 20 classes of units being distinguished. The "equated unit" represents a calculation of the equivalent of all the different units in terms of a 60-foot car. Annual rate of expenditure (regular authorizations) represents estimated cost for transporting normal mail traffic over regular routes only, based on contracts outstanding at the end of each fiscal year. "Annual cost" includes emergency and side and transfer service. Average rates are based on "regular authorizations".

Class of service and item	Year ended June 30, or as of June 30 of year specified						
	1910	1915	1920	1925	1926	1927	1928
<b>Steam railway service:</b>							
Length of routes (miles).....	220,730	233,676	232,358	230,470	220,281	228,992	226,965
Annual travel (thousand miles)—							
Regular space units.....	1426,923	1499,011	561,827	579,256	575,732	575,120	572,938
Priorated to 60-foot car basis.....	-----	-----	218,349	226,395	227,408	229,944	231,540
Annual expenditure—							
Regular authorizations.....	49,302	58,149	83,731	88,991	89,135	89,811	90,175
Annual cost.....	-----	-----	89,661	107,491	106,656	107,181	107,646
Average rate of cost—							
Per mile of length (dollars).....	223.36	248.84	360.35	386.12	388.75	392.20	397.80
Per unit mile traveled (cents).....	111.55	111.65	14.90	15.36	15.48	15.61	15.73
Per 60-foot car mile (cents).....	-----	-----	38.34	39.31	39.20	39.13	38.97
Railway mail employees—							
Number of employees.....	16,795	19,599	20,407	20,693	20,411	20,550	20,854
Expenditure for salary.....	19,047	21,205	35,644	48,613	51,508	52,994	53,559
<b>Electric railway service:</b>							
Number of routes.....	539	569	543	288	279	262	254
Length of routes (miles).....	7,198	8,183	8,043	8,042	8,205	8,029	7,875
Annual travel of space units (thousand miles).....	111,630	113,948	111,752	10,487	10,327	10,510	10,211
Annual rate of expenditure.....	674	819	471	566	665	662	642
Average cost per unit mile traveled (cents).....	15.79	15.87	14.01	5.39	6.43	6.29	6.28
<b>Power boat service.</b>							
Number of routes.....	217	260	266	284	276	275	280
Length of routes (miles).....	27,256	32,402	34,642	49,791	46,871	45,625	41,206
Annual travel (thousand miles).....	4,826	5,685	3,992	5,298	5,591	4,908	5,212
Annual rate of expenditure.....	705	990	1,773	1,492	1,423	1,318	1,361
Average cost per mile traveled (cents).....	14.61	17.42	19.36	28.16	25.44	26.84	26.10
	1918	1920	1922	1924	1926	1927	1928
<b>Air mail service <sup>3</sup></b>							
Mileage scheduled (thousands).....	18	654	1,629	1,590	2,816	5,575	6,000
Miles traveled with mail (thousands).....	16	549	1,538	1,523	2,652	5,135	5,585
Mail carried (thousand pounds).....	18	527	1,225	1,500	4,354	41,033	41,862
Cost of service.....	14	1,264	1,418	1,499	2,872	3,010	4,043

<sup>1</sup> Annual travel in thousands of miles and average cost per mile traveled. Space basis was not in force.

<sup>2</sup> Exclusive of freight and express service to Alaska or New York Harbor service.

<sup>3</sup> Contract service was inaugurated in 1926. Government service was discontinued in 1927. All data represent total service, except as otherwise noted.

<sup>4</sup> Only specially paid air mail was carried in 1926, 1927, and 1928, data for 1926 represent Government service only.

Sources of Tables 371 and 372. Annual Reports of the Postmaster General.

No. 371.—EXPENDITURES, UNITED STATES POSTAL SERVICE

NOTE.—All figures in thousands of dollars. For total expenditures see Table 368. Data cover expenditures during the specified year ended June 30, whether on account of that fiscal year or of previous years.

Item	1910	1915	1920	1924	1925	1926	1927	1928
Service in post offices (total).....	107,771	139,937	234,102	304,764	333,046	371,127	392,141	402,210
Salaries of postmasters.....	27,514	30,100	40,108	45,434	47,562	49,807	50,711	50,626
Salaries of clerks, etc.....	38,015	53,317	102,319	135,244	153,336	172,323	182,778	187,824
City delivery service.....	31,806	42,668	63,626	84,285	93,161	107,134	114,795	118,856
All other expenditures.....	10,405	13,552	28,049	30,801	41,987	41,801	43,827	44,904
Railway Mail Service.....	19,859	28,408	38,711	48,901	52,906	56,236	58,051	58,061
Rural Delivery Service.....	37,074	49,806	75,794	84,105	93,163	101,690	104,445	105,014
Transportation of domestic mail.....	61,940	76,914	99,520	138,005	142,141	139,428	145,400	146,154
By railroads.....	49,465	59,576	70,714	99,008	98,720	96,320	99,350	98,935
By other means.....	12,535	17,338	28,805	38,998	42,421	44,108	46,050	47,219
Transportation foreign mail.....	3,204	3,273	5,912	8,033	9,175	7,385	10,534	9,624
Payment account of invalid money orders.....	600	208	284	139	138	136	127	146
Post Office Department.....	-----	-----	-----	3,430	3,712	3,701	3,880	3,871

<sup>1</sup> Paid out of the General Treasury prior to 1923.

No. 372.—TRANSPORTATION OF DOMESTIC MAILS

NOTE.—Amounts, except as indicated, in thousands of dollars. Since Nov. 1, 1916, all service on steam railroads is authorized and paid for under the space basis system, formerly, payments were based on a system of quadrennial weighings. Railway mail space units of service vary in size and character and may consist of a car, a section of a car, or a closed pouch carried on a car. Some cars are railway post offices, others are for storage only, over 20 classes of units being distinguished. The "equated unit" represents a calculation of the equivalent of all the different units in terms of a 60-foot car. Annual rate of expenditure (regular authorizations) represents estimated cost for transporting normal mail traffic over regular routes only, based on contracts outstanding at the end of each fiscal year. "Annual cost" includes emergency and side and transfer service. Average rates are based on "regular authorizations."

Class of service and item	Year ended June 30, or as of June 30 of year specified						
	1910	1915	1920	1925	1926	1927	1928
<b>Steam railway service:</b>							
Length of routes (miles).....	220,730	233,676	232,358	230,470	220,281	228,992	226,965
Annual travel (thousand miles)—							
Regular space units.....	1426,923	1499,011	561,827	579,256	575,732	575,120	572,938
Priorated to 60-foot car basis.....	-----	-----	218,349	226,395	227,408	229,944	231,540
Annual expenditure—							
Regular authorizations.....	49,302	58,149	83,731	88,991	89,135	89,811	90,175
Annual cost.....	-----	-----	89,661	107,491	106,656	107,181	107,646
Average rate of cost—							
Per mile of length (dollars).....	223.36	248.84	360.35	386.12	388.75	392.20	397.80
Per unit mile traveled (cents).....	111.55	111.65	14.90	15.36	15.48	15.61	15.73
Per 60-foot car mile (cents).....	-----	-----	38.34	39.31	39.20	39.13	38.97
Railway mail employees—							
Number of employees.....	16,795	19,599	20,407	20,693	20,411	20,550	20,854
Expenditure for salary.....	19,047	21,205	35,644	48,613	51,508	52,994	53,559
<b>Electric railway service:</b>							
Number of routes.....	539	569	543	288	279	262	254
Length of routes (miles).....	7,198	8,183	8,043	8,042	8,205	8,029	7,875
Annual travel of space units (thousand miles).....	111,630	113,948	111,752	10,487	10,327	10,510	10,211
Annual rate of expenditure.....	674	819	471	566	665	662	642
Average cost per unit mile traveled (cents).....	15.79	15.87	14.01	5.39	6.43	6.29	6.28
<b>Power boat service.</b>							
Number of routes.....	217	260	266	284	276	275	280
Length of routes (miles).....	27,256	32,402	34,642	49,791	46,871	45,625	41,206
Annual travel (thousand miles).....	4,826	5,685	3,992	5,298	5,591	4,908	5,212
Annual rate of expenditure.....	705	990	1,773	1,492	1,423	1,318	1,361
Average cost per mile traveled (cents).....	14.61	17.42	19.36	28.16	25.44	26.84	26.10
	1918	1920	1922	1924	1926	1927	1928
<b>Air mail service <sup>3</sup></b>							
Mileage scheduled (thousands).....	18	654	1,629	1,590	2,816	5,575	6,000
Miles traveled with mail (thousands).....	16	549	1,538	1,523	2,652	5,135	5,585
Mail carried (thousand pounds).....	18	527	1,225	1,500	4,354	41,033	41,862
Cost of service.....	14	1,264	1,418	1,499	2,872	3,010	4,043

<sup>1</sup> Annual travel in thousands of miles and average cost per mile traveled. Space basis was not in force.

<sup>2</sup> Exclusive of freight and express service to Alaska or New York Harbor service.

<sup>3</sup> Contract service was inaugurated in 1926. Government service was discontinued in 1927. All data represent total service, except as otherwise noted.

<sup>4</sup> Only specially paid air mail was carried in 1926, 1927, and 1928, data for 1926 represent Government service only.

Sources of Tables 371 and 372. Annual Reports of the Postmaster General.

No. 375.—GROSS RECEIPTS, COST OF CITY DELIVERY SERVICE AND OF CLERK HIRE AT THE LARGER POST OFFICES: YEARS ENDED JUNE 30

Post office	Gross receipts (1,000 dollars)				Cost of city delivery, 1923		Cost of clerk hire, 1923	
	1920	1925	1927	1928	Amount (1,000 dollars)	Percent to receipts	Amount (1,000 dollars)	Percent to receipts
Total (55 post offices)....	237,410	332,748	380,828	386,556	71,584	18.52	99,979	25.86
New York, N. Y.....	49,612	65,523	74,449	77,160	9,967	12.92	23,341	30.25
Chicago, Ill.....	41,000	56,359	61,895	61,855	8,436	13.65	15,331	24.78
Philadelphia, Pa.....	14,695	17,777	20,432	20,103	4,169	20.73	4,996	24.85
Boston, Mass.....	11,124	14,709	17,164	17,269	4,852	28.09	5,675	32.86
St. Louis, Mo.....	8,235	12,099	13,659	12,962	2,223	17.15	3,214	24.80
Detroit, Mich.....	5,567	8,467	10,782	11,086	2,739	24.71	3,069	27.69
Kansas City, Mo.....	6,036	9,424	11,067	10,905	1,188	10.89	1,905	17.47
Los Angeles, Calif.....	3,583	8,065	9,553	10,012	2,434	24.30	2,494	24.91
Cleveland, Ohio.....	6,028	8,055	9,604	9,882	2,140	21.66	2,230	22.57
Brooklyn, N. Y.....	5,466	7,412	8,967	9,278	3,922	42.27	3,080	33.19
San Francisco, Calif.....	5,072	7,763	8,766	9,003	1,480	16.43	2,308	25.63
Pittsburgh, Pa.....	4,976	6,826	7,702	7,636	1,773	23.23	1,835	24.04
Cincinnati, Ohio.....	4,314	6,710	7,613	7,542	1,245	16.51	1,682	22.30
Baltimore, Md.....	4,052	5,427	6,972	6,871	1,680	24.45	1,863	27.11
Minneapolis, Minn.....	4,083	6,133	6,214	6,464	1,171	18.12	1,396	21.60
Washington, D. C.....	3,536	4,770	5,731	5,860	1,272	21.70	2,276	38.84
Milwaukee, Wis.....	2,893	4,712	5,448	5,805	1,130	19.47	1,058	18.23
Indianapolis, Ind.....	2,593	4,280	4,803	4,791	865	18.06	1,187	24.78
Buffalo, N. Y.....	3,325	4,633	4,916	4,762	1,429	30.00	1,281	26.90
St. Paul, Minn.....	2,384	4,258	4,597	4,549	726	15.97	892	19.61
Atlanta, Ga.....	2,748	3,470	4,456	4,525	561	12.40	923	20.40
Newark, N. J.....	2,110	3,520	4,180	4,420	1,029	23.27	943	21.33
Dallas, Tex.....	2,301	3,217	3,813	3,880	534	13.77	786	20.25
Denver, Colo.....	2,356	3,281	3,686	3,732	719	19.26	735	19.70
Seattle, Wash.....	2,232	2,998	3,415	3,463	818	23.62	912	26.35
Des Moines, Iowa.....	1,992	2,875	3,284	3,327	346	10.38	503	15.11
Portland, Oreg.....	1,788	2,776	3,097	3,110	744	23.92	767	24.66
Columbus, Ohio.....	1,721	2,641	2,991	3,054	559	18.29	610	19.98
Omaha, Nebr.....	2,312	2,846	3,032	3,037	620	20.41	764	25.15
Louisville, Ky.....	1,705	2,619	2,966	2,999	581	19.39	729	24.30
Rochester, N. Y.....	1,839	2,623	2,975	2,995	656	21.89	734	24.52
New Orleans, La.....	1,999	2,651	2,794	2,801	634	22.62	851	30.37
Memphis, Tenn.....	1,361	1,880	2,128	2,629	458	17.41	582	22.14
Toledo, Ohio.....	1,531	2,021	2,405	2,391	547	22.87	513	21.47
Dayton, Ohio.....	981	1,863	2,321	2,348	361	15.36	460	19.57
Hartford, Conn.....	1,271	1,782	2,189	2,253	361	16.04	482	21.38
Richmond, Va.....	1,376	1,966	2,197	2,252	448	19.91	563	24.98
Providence, R. I.....	1,356	1,860	2,084	2,206	630	28.55	555	25.18
Houston, Tex.....	1,252	1,579	1,933	2,064	389	18.86	487	23.59
Oakland, Calif.....	702	1,517	1,971	1,985	650	32.72	530	26.70
Akron, Ohio.....	1,191	1,275	1,637	1,846	392	21.20	373	20.18
Nashville, Tenn.....	1,211	1,645	1,789	1,843	316	17.14	456	24.75
Albany, N. Y.....	859	1,459	1,735	1,827	269	14.74	326	17.82
Birmingham, Ala.....	853	1,319	1,697	1,754	387	22.09	432	24.65
Syracuse, N. Y.....	1,145	1,493	1,728	1,744	431	24.70	422	24.20
New Haven, Conn.....	1,012	1,495	1,738	1,737	368	21.16	442	25.46
Grand Rapids, Mich.....	903	1,417	1,673	1,685	361	21.39	300	17.79
Oklahoma City, Okla.....	982	1,371	1,608	1,637	244	14.89	374	22.84
Jersey City, N. J.....	935	1,227	1,407	1,495	429	28.72	375	25.11
Scranton, Pa.....	723	1,070	1,189	1,415	341	24.07	312	22.07
Salt Lake City, Utah.....	904	1,257	1,373	1,403	338	24.13	368	26.26
Springfield, Mass.....	885	1,204	1,317	1,378	347	25.14	357	25.89
Worcester, Mass.....	833	1,067	1,262	1,247	358	28.72	318	25.52
Spokane, Wash.....	799	1,033	1,149	1,171	261	22.29	259	22.16
Jacksonville, Fla.....	670	962	1,275	1,110	258	23.28	322	28.99

Source Reports of the Postmaster General.

## No. 376.—POSTAL SERVICE: By STATES AND OUTLYING AREAS

Division and State	Number of post offices, June 30, 1928	Mileage of rural free-delivery routes, June 30, 1928	Gross postal receipts <sup>1</sup>					
			1920	1924	1925	1926	1927	1928
			In thousands of dollars for years ended June 30					
<b>Grand total.....</b>	<b>49,944</b>	<b>1,289,613</b>	<b>424,525</b>	<b>552,986</b>	<b>554,755</b>	<b>640,932</b>	<b>663,669</b>	<b>673,954</b>
<b>United States proper.....</b>	<b>49,580</b>	<b>1,289,595</b>	<b>423,463</b>	<b>551,723</b>	<b>553,427</b>	<b>639,532</b>	<b>662,218</b>	<b>672,445</b>
<b>New England.....</b>	<b>2,564</b>	<b>41,734</b>	<b>32,276</b>	<b>41,412</b>	<b>43,498</b>	<b>47,346</b>	<b>49,092</b>	<b>49,703</b>
Maine.....	823	11,880	2,866	3,742	3,946	4,035	3,975	3,938
New Hampshire.....	378	6,057	1,504	2,010	2,035	2,239	2,292	2,323
Vermont.....	384	8,173	1,220	1,525	1,540	1,640	1,685	1,688
Massachusetts.....	646	7,730	18,913	23,878	25,064	27,193	28,536	28,660
Rhode Island.....	94	1,166	2,029	2,597	2,702	3,188	3,027	3,169
Connecticut.....	329	6,728	5,744	7,658	8,211	9,051	9,577	9,916
<b>Middle Atlantic.....</b>	<b>5,756</b>	<b>111,439</b>	<b>117,897</b>	<b>152,757</b>	<b>161,532</b>	<b>178,029</b>	<b>185,028</b>	<b>190,060</b>
New York.....	2,219	48,280	74,772	96,992	102,514	112,641	116,973	120,963
New Jersey.....	665	8,416	9,512	13,473	14,655	16,403	17,468	18,475
Pennsylvania.....	2,872	54,743	33,613	42,292	44,363	48,985	50,587	50,622
<b>East North Central.....</b>	<b>6,448</b>	<b>294,491</b>	<b>107,848</b>	<b>141,774</b>	<b>151,924</b>	<b>168,546</b>	<b>172,068</b>	<b>174,274</b>
Ohio.....	1,544	66,032	24,800	32,499	35,417	39,051	40,576	41,142
Indiana.....	1,044	57,300	9,226	13,009	13,774	14,976	15,551	15,555
Illinois.....	1,611	71,736	51,357	66,061	70,753	76,423	78,227	78,761
Michigan.....	1,182	51,806	13,199	17,784	18,978	21,616	22,920	23,364
Wisconsin.....	1,062	47,617	8,761	12,331	13,002	14,480	14,789	15,252
<b>West North Central.....</b>	<b>7,424</b>	<b>317,232</b>	<b>53,971</b>	<b>70,131</b>	<b>73,365</b>	<b>78,861</b>	<b>80,794</b>	<b>80,297</b>
Minnesota.....	1,206	61,339	10,847	15,342	15,836	16,923	16,844	17,003
Iowa.....	1,227	62,265	9,392	11,334	11,720	12,712	13,116	13,141
Missouri.....	1,771	59,034	18,624	25,721	27,230	29,652	30,785	29,866
North Dakota.....	686	27,537	2,062	2,179	2,360	2,534	2,582	2,668
South Dakota.....	637	23,506	2,066	2,391	2,539	2,736	2,775	2,783
Nebraska.....	860	35,331	5,504	6,470	6,663	6,932	7,101	7,180
Kansas.....	1,047	68,170	5,476	6,694	7,017	7,372	7,591	7,566
<b>South Atlantic.....</b>	<b>8,905</b>	<b>178,056</b>	<b>34,415</b>	<b>43,830</b>	<b>46,072</b>	<b>52,971</b>	<b>53,726</b>	<b>53,227</b>
Delaware.....	85	2,931	811	954	999	1,086	1,145	1,205
Maryland.....	673	11,105	5,292	6,799	7,101	8,512	8,502	8,693
District of Columbia.....	1	200	3,536	4,519	4,771	5,315	5,731	5,861
Virginia.....	2,195	28,154	5,621	6,953	7,236	7,810	7,941	8,070
West Virginia.....	1,890	10,910	3,154	4,280	4,395	4,639	4,830	4,781
North Carolina.....	1,470	38,378	4,138	5,640	5,814	6,272	6,454	6,593
South Carolina.....	663	24,654	2,289	2,522	2,530	2,669	2,626	2,652
Georgia.....	1,079	50,058	6,395	7,529	7,734	8,263	9,010	9,079
Florida.....	839	11,663	3,179	4,625	5,402	8,405	7,187	6,228
<b>East South Central.....</b>	<b>5,605</b>	<b>131,007</b>	<b>15,546</b>	<b>20,019</b>	<b>20,576</b>	<b>22,371</b>	<b>22,916</b>	<b>23,927</b>
Kentucky.....	2,671	24,436	4,392	6,202	6,283	6,723	7,018	7,088
Tennessee.....	982	42,216	5,289	6,853	7,107	7,724	7,835	8,441
Alabama.....	1,065	33,960	3,418	4,213	4,385	4,839	4,914	5,182
Mississippi.....	887	30,395	2,447	2,751	2,801	3,085	3,119	3,216
<b>West South Central.....</b>	<b>5,653</b>	<b>141,384</b>	<b>24,678</b>	<b>29,077</b>	<b>30,646</b>	<b>33,539</b>	<b>35,150</b>	<b>35,787</b>
Arkansas.....	1,371	21,830	2,923	3,454	3,685	3,838	3,888	3,837
Louisiana.....	946	11,257	4,015	4,873	5,055	5,438	5,412	5,445
Oklahoma.....	1,084	40,514	4,730	5,518	5,889	6,397	6,733	6,820
Texas.....	2,252	67,783	13,005	15,232	16,117	17,866	19,117	19,685
<b>Mountain.....</b>	<b>3,876</b>	<b>33,954</b>	<b>12,178</b>	<b>14,896</b>	<b>15,004</b>	<b>15,778</b>	<b>16,259</b>	<b>16,551</b>
Montana.....	840	6,507	2,016	2,112	2,180	2,236	2,303	2,397
Idaho.....	495	6,333	1,397	1,818	1,824	1,907	1,451	1,484
Wyoming.....	399	1,153	712	850	953	974	983	979
Colorado.....	752	14,400	4,395	5,582	5,878	6,222	6,425	6,497
New Mexico.....	538	2,432	679	890	900	948	991	1,012
Arizona.....	307	1,326	443	1,060	1,137	1,216	1,286	1,336
Utah.....	354	1,651	1,647	2,042	2,179	2,304	2,312	2,355
Nevada.....	176	147	386	442	453	479	508	487
<b>Pacific.....</b>	<b>3,264</b>	<b>40,298</b>	<b>25,158</b>	<b>38,330</b>	<b>40,812</b>	<b>44,094</b>	<b>47,192</b>	<b>48,617</b>
Washington.....	890	13,078	5,636	7,491	7,886	8,011	8,368	8,492
Oregon.....	774	8,739	3,324	4,668	4,809	5,172	5,337	5,361
California.....	1,594	18,481	16,198	26,476	28,500	30,911	33,477	34,764
<b>Outlying offices.....</b>	<b>364</b>	<b>18</b>	<b>2 1,062</b>	<b>1,264</b>	<b>1,328</b>	<b>1,401</b>	<b>1,453</b>	<b>1,600</b>
Alaska.....	171	82	65	71	78	81	81	90
Guam.....	1	1	2	2	2	2	2	2
Hawaii.....	92	18	352	533	611	634	645	710
Porto Rico.....	94	406	520	522	537	537	537	539
Samoa (Tutuila).....	1	2	2	2	2	(3)	(3)	(3)
Virgin Islands.....	5	17	12	11	12	12	12	13
Philatelic agency.....			130	109		136		154

<sup>1</sup> Revenues from money-order business, postal savings, and certain miscellaneous items not included<sup>2</sup> Includes receipts from agencies in China, France, and Siberia<sup>3</sup> Less than \$500

Source. Annual Reports of the Postmaster General



No. 377.—MONEY ORDERS: BY STATES AND OUTLYING AREAS

NOTE.—Amounts in thousands of dollars for years ended June 30. "Domestic basis" money orders include those to or from "domestic basis" foreign countries. For explanation see headnote, Table 370

Division and State	Domestic basis money orders				International money orders			
	Issued		Paid		Issued		Paid	
	1927	1928	1927	1928	1927	1928	1927	1928
Grand total.....	1,667,298	1,650,480	1,664,836	1,648,544	49,234	51,198	6,163	7,301
United States proper.....	1,653,449	1,636,498	1,658,250	1,641,740	48,694	50,667	6,142	7,230
New England.....	132,837	137,048	117,133	116,179	4,971	4,989	474	597
Maine.....	15,844	15,631	9,439	9,236	119	145	17	20
New Hampshire.....	9,772	9,773	5,080	5,087	102	102	9	9
Vermont.....	7,347	7,067	3,681	3,916	51	52	9	17
Massachusetts.....	71,049	69,720	76,095	74,708	3,070	3,030	279	294
Rhode Island.....	9,341	9,402	6,585	6,796	329	333	29	38
Connecticut.....	25,594	25,455	16,349	16,416	1,300	1,327	131	219
Middle Atlantic.....	397,975	395,472	442,494	435,074	22,196	24,086	2,285	3,298
New York.....	210,667	218,884	273,010	267,465	14,133	16,349	1,115	2,066
New Jersey.....	53,228	53,325	35,517	36,418	3,634	3,566	286	412
Pennsylvania.....	133,900	123,063	133,967	131,191	4,129	3,851	584	798
East North Central.....	347,509	337,881	470,320	456,809	9,477	9,347	1,546	1,523
Ohio.....	81,131	78,449	95,668	91,808	1,623	1,564	211	314
Indiana.....	35,636	34,714	42,851	47,079	796	684	64	129
Illinois.....	102,433	100,195	251,278	212,645	4,238	4,199	916	641
Michigan.....	82,539	79,002	52,153	52,638	1,968	2,008	218	256
Wisconsin.....	45,440	45,321	28,367	28,439	852	892	107	130
West North Central.....	161,713	163,775	179,259	181,214	1,645	1,847	324	386
Minnesota.....	35,261	36,063	47,650	51,130	448	444	93	102
Iowa.....	51,210	29,860	21,985	21,762	221	220	45	53
Missouri.....	31,496	31,430	76,144	74,712	453	466	160	121
North Dakota.....	13,318	15,123	4,828	5,108	54	65	17	21
South Dakota.....	14,786	14,470	6,543	6,876	52	72	16	14
Nebraska.....	14,182	15,251	11,800	11,962	150	164	84	52
Kansas.....	18,472	18,638	10,309	10,664	267	416	19	23
South Atlantic.....	180,852	175,053	153,515	148,074	1,110	1,068	264	320
Delaware.....	3,064	2,920	1,372	1,319	55	65	0	14
Maryland.....	17,139	17,575	33,279	29,687	229	243	30	41
District of Columbia.....	3,479	8,446	17,391	19,438	200	255	127	152
Virginia.....	23,183	22,733	16,798	15,995	103	104	13	11
West Virginia.....	30,908	27,606	10,168	10,191	75	75	32	50
North Carolina.....	23,684	22,962	13,407	13,325	65	65	5	6
South Carolina.....	13,827	14,841	7,064	7,780	28	29	5	3
Georgia.....	20,938	26,063	32,214	31,339	51	55	6	7
Florida.....	43,739	30,307	20,522	17,040	304	207	37	36
East South Central.....	74,522	76,501	43,193	48,175	158	178	23	29
Kentucky.....	19,700	19,155	11,190	10,760	55	59	8	11
Tennessee.....	16,866	17,658	15,708	21,731	43	47	6	6
Alabama.....	20,559	21,022	10,567	10,172	47	61	7	10
Mississippi.....	17,367	18,666	5,728	5,512	13	11	2	2
West South Central.....	124,874	128,993	81,887	82,613	1,331	1,502	277	241
Arkansas.....	17,592	18,344	9,186	9,181	17	15	5	5
Louisiana.....	21,227	20,476	15,002	13,103	125	117	24	15
Oklahoma.....	28,368	28,707	13,655	14,276	124	157	19	12
Texas.....	57,637	61,465	44,021	46,053	1,065	1,213	229	209
Mountain.....	86,982	80,850	46,678	47,206	1,847	1,555	142	158
Montana.....	16,544	17,087	6,908	7,088	204	231	21	27
Idaho.....	9,457	9,410	2,911	3,249	88	92	6	11
Wyoming.....	8,165	8,026	2,282	2,191	102	114	16	6
Colorado.....	17,720	16,967	16,426	16,293	322	318	40	57
New Mexico.....	8,299	8,390	3,132	3,065	118	134	7	6
Arizona.....	9,041	9,398	3,944	4,159	402	333	30	27
Utah.....	7,011	7,781	9,723	9,779	206	231	19	21
Nevada.....	3,895	3,791	1,350	1,382	106	102	3	3
Pacific.....	135,677	140,098	123,984	128,395	6,257	6,112	806	725
Washington.....	30,295	31,233	26,786	27,468	827	822	228	101
Oregon.....	16,631	17,167	17,404	16,983	428	377	38	40
California.....	88,751	91,698	79,794	83,944	5,002	4,913	540	584
Outlying offices.....	13,850	15,011	6,585	6,806	540	530	22	21
Alaska.....	2,936	3,006	332	566	92	90	1	1
Guam.....	53	64	3	4	4	5	(1)	(1)
Hawaii.....	5,512	6,753	1,765	1,853	391	395	13	17
Porto Rico.....	4,858	4,680	4,418	4,271	22	17	2	1
Samoa (Tutuila).....	32	24	3	3	25	17	1	1
Virgin Islands.....	459	484	67	108	6	6	1	1

1 Less than \$500.

Source Annual Reports of the Postmaster General

# 17.—TELEPHONE, TELEGRAPH, AND CABLE SYSTEMS

[Data cover public telephone systems and land (wire) and wireless commercial telegraph systems operated in continental United States and commercial cable systems operated by companies incorporated in United States]

## No. 378.—TELEPHONE SYSTEMS: EQUIPMENT, TRAFFIC, EMPLOYEES, SALARIES AND WAGES, REVENUE, AND INVESTMENT

NOTE.—The more detailed data were collected only for companies reporting an annual income of \$5,000 or more previous to 1922 and \$10,000 or more in 1922 and 1927

[All money figures in thousands of dollars]

	1902 <sup>1</sup>	1907	1912	1917	1922	1927
<b>ALL SYSTEMS</b>						
Number of systems and lines.....	9,136	22,971	32,233	53,234	57,253	60,148
Miles of wire (thousands).....	4,900	12,999	20,248	28,827	37,266	63,836
Number of telephones (thousands).....	2,371	6,119	8,730	11,717	14,547	18,523
Number of calls originating with systems reporting (millions).....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	21,846	24,648	21,614
Number of employees.....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	262,629	312,015	375,272
Salaries and wages.....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	175,670	352,926	486,597
Revenue, operating <sup>3</sup> .....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	363,832	665,568	1,023,574
Investment in plant and equipment.....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	1,492,329	2,205,183	3,548,875
<b>SYSTEMS REPORTING ANNUAL INCOME OF \$5,000 OR MORE, 1902-1917, AND THOSE REPORTING \$10,000 OR MORE, 1922 AND 1927</b>						
Number of systems and lines.....	4,151	1,636	1,916	2,200	1,323	1,368
Miles of wire, total (thousands).....	4,850	11,922	19,019	27,998	35,503	62,277
Underground.....	( <sup>4</sup> )	( <sup>4</sup> )	9,165	14,849	21,440	39,893
Overhead.....	( <sup>4</sup> )	( <sup>4</sup> )	9,854	12,449	14,063	22,384
Exchange lines.....	( <sup>4</sup> )	( <sup>4</sup> )	16,336	23,723	30,907	54,281
Toll lines.....	( <sup>4</sup> )	( <sup>4</sup> )	2,683	3,575	4,596	7,996
Number of telephones (thousands).....	2,315	4,907	7,327	9,954	12,295	16,713
Number of central offices.....	10,361	10,613	11,515	12,294	10,666	11,485
Number of private-branch exchanges.....	7,883	28,276	52,651	80,914	102,622	( <sup>5</sup> )
Number of calls originating with systems reporting (millions).....	<sup>6</sup> 5,071	10,400	13,736	19,809	21,901	29,196
Local exchange.....	<sup>6</sup> 4,950	10,161	13,395	19,366	21,235	28,109
Long distance or toll.....	<sup>6</sup> 121	240	341	443	666	1,087
Number of employees.....	78,752	131,670	183,361	244,490	290,333	356,739
Salaries and wages.....	36,256	65,009	96,041	169,655	341,538	475,840
<b>Operators (included above):</b>						
Number.....	39,858	72,518	96,332	138,971	159,558	( <sup>5</sup> )
Male.....	2,525	2,457	1,972	1,679	932	( <sup>5</sup> )
Female.....	37,333	70,061	94,360	137,292	158,626	( <sup>5</sup> )
Wages.....	10,765	22,637	32,474	66,137	138,897	( <sup>5</sup> )
<b>BELL SYSTEM (INCLUDED ABOVE)</b>						
Miles of wire (thousands).....	3,388	8,947	15,133	23,134	30,614	56,819
Number of telephones (thousands).....	1,317	3,132	5,087	7,327	9,515	13,726
Number of originating calls (millions).....	3,075	6,401	9,133	14,598	16,567	23,693
<b>SYSTEMS REPORTING ANNUAL INCOME OF LESS THAN \$5,000, 1902-1917, AND LESS THAN \$10,000, 1922 AND 1927</b>						
Miles of wire (thousands).....	50	1,077	1,229	1,529	1,763	1,559
Number of telephones (thousands).....	56	1,212	1,403	1,763	2,052	1,810
Number of originating calls (millions).....	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	2,037	2,746	2,418

<sup>1</sup> Statistics for 1902 not strictly comparable with those for later years, except miles of wire and number of telephones.

<sup>2</sup> Not reported except for the larger systems and lines

<sup>3</sup> Including assessments of mutual companies.

<sup>4</sup> Comparable data not available.

<sup>5</sup> Not called for on schedule.

<sup>6</sup> Number shown for all systems and lines

Source Bureau of the Census, Department of Commerce

No. 379.—TELEPHONE SYSTEMS: MILES OF WIRE, NUMBER OF TELEPHONES,  
AND NUMBER OF ORIGINATING CALLS, ALL SYSTEMS AND LINES, BY STATES

Division and State	Miles of wire		Number of telephones				Tele- phones per 1,000 popu- lation, 1927	Number of originating calls (millions)	
	1922	1927	1902	1912	1922	1927		1922	1927
United States.....	37,265,958	63,836,182	2,371,044	3,729,592	14,347,393	18,522,737	156	24,648	31,614
New England.....	3,543,653	5,586,569	166,167	625,438	1,223,497	1,548,931	189	1,909	2,328
Maine.....	210,707	326,129	14,070	68,914	113,725	131,367	166	184	214
New Hampshire.....	134,326	211,448	9,949	40,017	68,571	83,066	183	104	117
Vermont.....	78,991	105,645	12,151	40,142	51,530	60,793	172	83	84
Massachusetts.....	1,608,091	3,165,833	96,512	329,992	687,700	867,888	205	1,100	1,334
Rhode Island.....	213,713	429,451	33,485	41,664	92,766	114,944	163	125	117
Connecticut.....	800,780	1,348,072	33,485	104,759	205,902	290,873	178	313	402
Middle Atlantic.....	10,818,580	19,992,689	483,054	1,782,145	3,249,710	4,588,211	184	4,826	6,908
New York.....	6,121,696	11,592,418	247,340	970,449	1,780,863	2,595,537	227	2,728	3,935
New Jersey.....	1,223,354	3,012,459	48,980	185,632	383,496	599,336	160	473	774
Pennsylvania.....	3,173,530	5,387,812	186,734	626,064	1,085,651	1,393,338	143	1,625	2,199
East North Central.....	8,763,148	15,223,410	740,059	2,378,257	3,693,101	4,589,751	187	6,077	7,538
Ohio.....	2,415,187	3,688,505	224,083	631,206	962,837	1,122,036	167	1,555	1,958
Indiana.....	1,058,814	1,553,005	136,561	354,550	508,726	552,249	175	959	1,061
Illinois.....	3,060,595	5,688,146	221,008	807,253	1,263,449	1,685,690	231	2,018	2,571
Michigan.....	1,890,945	2,967,217	95,415	335,074	508,140	711,315	158	856	1,401
Wisconsin.....	838,105	1,351,537	62,992	250,174	429,949	518,461	178	689	808
West North Central.....	4,487,007	8,044,901	399,855	1,621,523	2,315,998	2,594,081	197	4,083	4,577
Minnesota.....	1,147,278	1,422,716	63,192	272,359	424,777	487,611	182	804	931
Iowa.....	757,600	960,226	138,400	380,294	533,347	555,533	233	808	916
Missouri.....	1,247,503	1,988,764	103,155	404,150	550,980	657,946	187	1,046	1,269
North Dakota.....	121,873	140,923	6,762	51,241	77,586	86,198	134	110	129
South Dakota.....	108,414	154,601	10,387	65,858	101,565	107,611	155	159	171
Nebraska.....	514,374	606,425	36,766	201,689	273,500	295,274	212	520	521
Kansas.....	586,965	771,246	41,193	245,932	354,251	393,878	216	636	637
South Atlantic.....	2,448,857	4,244,552	146,765	531,402	937,924	1,282,222	79	1,818	2,426
Delaware.....	93,891	118,539	36,388	13,842	23,534	28,901	119	41	53
Maryland.....	540,089	936,353	36,388	84,801	153,790	197,135	123	237	294
District of Colum- bia.....	214,636	540,152	46,603	102,231	144,985	268	121	186	
Virginia.....	379,093	615,286	25,762	76,652	155,490	183,698	72	267	382
West Virginia.....	226,739	349,899	22,801	80,251	116,081	146,677	86	203	279
North Carolina.....	199,594	392,455	17,036	65,152	116,129	160,507	55	274	378
South Carolina.....	126,254	171,678	10,753	33,239	54,078	61,616	35	125	146
Georgia.....	390,352	538,751	25,761	96,436	136,334	173,410	55	372	437
Florida.....	178,149	581,739	8,269	32,426	79,657	162,293	119	178	270
East South Central.....	1,248,559	2,001,125	112,851	337,292	521,120	644,270	69	1,274	1,587
Kentucky.....	467,781	722,120	46,949	130,751	201,540	222,735	88	429	485
Tennessee.....	399,932	642,096	36,302	104,353	171,412	220,559	89	470	559
Alabama.....	229,931	421,927	14,170	56,292	84,401	121,115	48	219	313
Mississippi.....	150,912	214,982	15,340	45,896	63,761	79,861	45	147	180
West South Central.....	2,148,789	3,619,976	114,939	543,102	872,157	1,149,357	99	1,963	2,649
Arkansas.....	219,398	318,868	16,928	68,303	99,490	118,178	62	216	239
Louisiana.....	256,372	500,202	17,543	46,002	87,854	137,610	71	260	385
Oklahoma.....	424,005	655,102	15,732	116,217	222,889	278,912	117	462	581
Texas.....	1,249,014	2,085,744	64,736	311,980	462,424	614,657	114	1,025	1,444
Mountain.....	927,662	1,198,556	48,067	226,652	385,730	456,198	114	636	780
Montana.....	120,725	135,536	5,451	35,537	55,115	59,238	83	75	81
Idaho.....	105,027	111,940	3,886	29,454	48,745	54,822	103	88	128
Wyoming.....	50,224	60,622	1,728	9,946	24,949	26,049	116	42	39
Colorado.....	412,816	553,573	24,533	90,397	150,652	183,250	171	247	313
New Mexico.....	37,428	48,765	2,510	10,346	18,242	21,580	53	33	35
Arizona.....	55,513	89,305	3,264	11,224	24,353	33,194	72	31	37
Utah.....	129,193	167,393	(9)	34,064	53,261	63,166	121	104	127
Nevada.....	16,732	25,116	1,135	5,684	10,313	12,959	168	16	20
Pacific.....	3,076,750	5,924,110	159,287	683,731	1,143,780	1,689,748	245	2,082	2,871
Washington.....	533,515	739,138	31,447	150,016	238,275	299,109	192	449	554
Oregon.....	368,342	490,820	21,190	99,713	146,847	185,171	208	277	331
California.....	2,174,893	4,694,152	106,650	434,602	763,638	1,205,466	272	1,336	1,986

<sup>1</sup> Includes Utah.

<sup>2</sup> Included with Wyoming.

Source Bureau of the Census, Department of Commerce.

**No. 380.—AMERICAN TELEPHONE & TELEGRAPH CO. AND ASSOCIATED OPERATING COMPANIES: NUMBER OF TELEPHONES AND MILES OF WIRE**

Dec 31—	Total tele- phones <sup>1</sup>	Bell system		Dec. 31—	Total tele- phones <sup>1</sup>	Bell system	
		Tele- phones <sup>2</sup>	Miles of wires			Tele- phones <sup>2</sup>	Miles of wire
1895.....	339, 500	309, 502	675, 415	1920.....	13, 329, 400	12, 601, 935	25, 377, 404
1900.....	1, 355, 900	855, 911	1, 961, 801	1921.....	13, 875, 200	13, 380, 219	27, 819, 821
1905.....	4, 126, 900	2, 530, 924	5, 773, 918	1922.....	14, 347, 395	14, 050, 555	30, 616, 722
1910.....	7, 635, 400	5, 882, 119	11, 642, 212	1923.....	15, 369, 500	15, 000, 101	34, 523, 842
1915.....	10, 523, 500	9, 172, 495	18, 505, 545	1924.....	16, 072, 500	15, 906, 550	39, 896, 619
1916.....	11, 241, 400	9, 593, 610	19, 850, 315	1925.....	16, 935, 900	16, 720, 224	45, 473, 549
1917.....	11, 716, 320	10, 539, 576	22, 610, 487	1926.....	17, 746, 000	17, 574, 252	50, 861, 159
1918.....	12, 077, 600	11, 063, 909	23, 344, 132	1927.....	18, 523, 000	18, 365, 486	56, 822, 841
1919.....	12, 668, 500	11, 793, 747	24, 162, 999	1928.....	19, 341, 000	19, 197, 035	62, 162, 744

<sup>1</sup> Partly estimated, except as indicated<sup>2</sup> Bell-owned and Bell-connecting (owned by other companies)<sup>3</sup> From Bureau of the Census
**No. 381.—AMERICAN TELEPHONE & TELEGRAPH CO. AND ASSOCIATED OPERATING COMPANIES (BELL TELEPHONE SYSTEM): SUMMARY OF STATISTICS**

	1910	1915	1920	1925	1926	1927	1928
Operating statistics and employees as of Dec 31 (in thousands, except as indicated)							
Exchange messages, daily average.....	21, 681	25, 184	31, 835	46, 702	49, 980	52, 581	56, 196
Toll messages, daily average.....	603	819	1, 327	2, 098	2, 575	2, 614	2, 839
Central offices (number).....	4, 933	5, 300	5, 702	6, 017	5, 998	6, 115	6, 224
Miles of wire, total.....	11, 042	18, 506	25, 377	45, 474	50, 861	56, 823	62, 193
Actual wire.....	5, 625	7, 932	9, 630	14, 901	15, 693	18, 936	21, 112
Underground wire.....	6, 017	10, 573	15, 748	30, 483	31, 169	37, 887	41, 081
Exchange wire.....	9, 678	16, 052	21, 604	39, 841	44, 564	49, 279	53, 416
Toll wire.....	1, 964	2, 453	3, 773	5, 633	6, 297	7, 544	8, 777
Miles of phantom circuit <sup>1</sup> .....	116	197	508	795	947	1, 140	1, 238
Telephone stations, total.....	5, 883	9, 172	12, 602	16, 720	17, 574	18, 365	19, 197
Bell-owned <sup>2</sup> .....	3, 933	5, 968	8, 334	12, 035	12, 816	13, 726	14, 525
Bell-connecting (owned by other companies).....	1, 950	3, 204	4, 268	4, 685	4, 758	4, 639	4, 672
Employees (number).....	120, 311	156, 294	231, 316	293, 095	300, 628	308, 911	334, 335
Income statement year ended Dec 31 (in thousands of dollars) <sup>3</sup>							
Gross revenues.....	165, 618	239, 910	461, 135	761, 219	844, 516	916, 587	1, 003, 018
Expenses.....	114, 618	173, 728	381, 626	578, 776	639, 576	700, 017	766, 526
Net revenue.....	50, 994	66, 182	79, 509	182, 443	204, 870	216, 570	242, 722
Interest.....	11, 557	18, 096	31, 724	45, 940	49, 809	50, 511	51, 635
Net income.....	39, 438	48, 086	47, 785	136, 503	155, 061	166, 059	191, 087
Dividends.....	25, 161	32, 897	40, 000	93, 245	100, 614	112, 401	119, 348
Balance.....	14, 277	15, 189	7, 785	43, 260	54, 447	<sup>4</sup> 53, 658	71, 739
Telephone plant, capital stock, and funded debt Dec 31 (in thousands of dollars) <sup>3</sup>							
Telephone plant.....	611, 000	880, 069	1, 363, 826	2, 524, 906	2, 783, 023	3, 013, 985	3, 275, 687
Capital stock.....	344, 645	440, 711	511, 493	1, 144, 619	1, 312, 881	1, 351, 940	1, 564, 644
Funded debt.....	224, 792	353, 256	585, 734	896, 337	921, 523	919, 790	912, 126

<sup>1</sup> A phantom circuit is an extra circuit obtained without use of additional line wires by special interconnection of the four wires forming two existing physical circuits<sup>2</sup> Includes private line stations<sup>3</sup> All duplications between companies excluded<sup>4</sup> Does not include special nonrecurring dividend of \$47,933,865 received from Western Electric Co. (Inc.). Source of Tables 380 and 381: The American Telephone & Telegraph Co.

### No. 382.—TELEPHONE SYSTEMS: REPORTS TO INTERSTATE COMMERCE COMMISSION

NOTE.—Companies engaged in interstate business are required to report both as regards interstate and intrastate business. Prior to 1923 the classification of companies based on the amount of annual operating revenues was as follows. Class A, over \$250,000; Class B, \$50,000 to \$250,000; Class C, \$10,000 to \$50,000. Class B now includes companies with revenues from \$100,000 to \$250,000 and Class C those with revenues from \$50,000 to \$100,000. The smaller companies, Class D, are not covered in the table.

Year ended Dec. 31—	Miles of wire (thou- sands)	Num- ber of com- pany sta- tions (thou- sands)	Operat- ing revenues	Operat- ing expenses	Operat- ing income before deduc- tion of taxes	Operat- ing income after deduc- tion of taxes	Investment	
							Plant and equip- ment	All other
Thousands of dollars								
All companies								
1916	23,699	8,963	314,801	209,233	(1)	(1)	1,217,756	(1)
1917	26,405	9,432	346,101	239,161	(1)	(1)	1,311,574	(1)
1920	29,640		530,349			88,024	1,704,304	1,122,280
1922	35,475		634,134			133,505	2,019,726	1,223,639
1923	38,615		671,436	475,463		142,369	2,198,446	1,354,596
1924	44,066		729,826	513,779		156,713	2,501,828	1,491,939
1925	49,773	13,875	818,218	556,993	257,231	193,599	2,790,056	1,633,124
1926	56,021	14,812	907,564	608,150	294,925	219,508	3,101,797	1,744,637
1927	62,096	15,702	979,414	653,231	316,951	235,047	3,367,860	1,953,742
Class A companies								
1920	27,402	9,294	486,427	375,372	112,069	81,362	1,518,660	1,092,698
1925	48,487	13,037	792,428	539,072	248,476	186,777	2,674,926	1,631,335
1927	60,723	14,877	952,149	639,203	307,821	228,012	3,237,984	1,951,825
1928	(1)	15,759	1,038,810	694,698	337,585	252,244	(1)	(1)
Class B companies 1927	925	515	17,528	11,964	5,480	4,056	71,982	1,281
Class C companies 1927	448	310	9,737	7,064	3,650	2,979	57,894	636

<sup>1</sup> Data not available.

Source: Interstate Commerce Commission

### No. 383.—WIRELESS TELEGRAPH SYSTEMS: SUMMARY OF STATISTICS

NOTE.—1917 omitted owing to war conditions

	1907	1912	1922	1927
Number of companies or systems	5	4	4	5
Number of messages	154,617	1 285,091	2,365,109	3,777,538
Number of tower stations	117	74	37	55
Income, total	\$106,791	\$669,158	\$8,111,102	\$24,829,340
Expenses, total	\$160,329	\$664,420	\$5,111,574	\$12,866,636
General operation and maintenance	\$117,480	\$588,712	\$3,534,474	\$5,116,204
Interest and taxes	\$5,562	\$7,826	\$156,457	\$249,435
All other expenses	\$37,287	\$67,882	\$1,420,642	\$7,500,937
Net income		\$4,738	\$2,999,528	\$11,962,704
Deficit	\$53,538			
Assets, total	\$32,958,897	\$10,377,197	\$49,494,909	\$81,147,512
Plant and equipment	\$317,614	\$1,205,770	\$34,716,814	\$35,751,904
Investment and marketable securities, long-term advances, and misc. investments			\$1,225,169	\$17,711,483
Cash and current assets			\$4,427,830	\$19,312,823
Materials and supplies	\$32,196,456	\$9,171,427	\$5,888,877	\$6,681,530
Sundries			\$241,219	\$1,387,312
Deficit	\$444,827			\$152,430
Liabilities, total	\$32,958,897	\$10,377,197	\$46,494,909	\$81,147,512
Capital stock	\$32,676,242	\$9,602,570	\$36,034,309	\$38,174,134
Funded and long-term debt			\$255,000	
Floating debt			\$659,280	\$320,961
Accounts payable	\$282,655	\$287,866	\$3,254,556	\$11,436,628
Reserves (depreciation and other)			\$4,040,280	\$7,206,630
Sundries		\$313,777	\$1,172,599	\$5,746,973
Surplus		\$172,984	\$608,885	\$8,262,186
Number of employees	176	958	1,258	1,985
Salaries and wages	\$81,771	\$393,606	\$2,093,506	\$2,558,179

<sup>1</sup> Includes 5,013 land messages sent over a leased wire by a wireless company doing a land-telegraph business also.

<sup>2</sup> Includes revenues from transmission for 1922, \$4,207,785, for 1927, \$6,226,188, other operating revenues, 1922, \$3,644,201, 1927, \$14,791,565, nonoperating income, 1922, \$259,116, 1927, \$3,811,587.

<sup>3</sup> Includes sinking funds and stock and bond discounts.

Source: Bureau of the Census, Department of Commerce

**No. 384.—TELEGRAPH AND CABLE SYSTEM: SUMMARY OF REPORTS TO THE  
INTERSTATE COMMERCE COMMISSION**

[All money figures in thousands of dollars]

Year ended Dec. 31—	Miles of wire (thousands)	Investments		Operating revenues	Operating ratio (per cent)	Operating income	Net income	Dividends
		Plant and equipment	Other					
All companies								
1916	1,936	149,936	(1)	74,847	73 77	(1)	13,955	6,066
1917	1,937	152,462	(1)	90,791	74 82	(1)	13,807	7,078
1920	1,781	258,097	21,275	153,264		21,512	16,158	11,471
1921	1,858	270,976	20,549	136,663		18,667	13,311	9,078
1922	1,874	279,402	19,907	138,190		22,894	18,138	13,960
1923	1,894	288,481	27,001	144,610	81 11	21,025	16,656	9,309
1924	1,946	307,143	27,565	146,176	81 94	20,229	15,805	9,386
1925	2,075	321,687	28,191	162,693	81 64	23,204	18,854	9,066
1926	2,056	338,794	27,017	165,831	82 81	21,767	16,806	10,750
1927	2,207	379,514	27,434	170,843	80 58	26,714	21,046	11,618
Western Union Co : 1927	1,783	257,386	25,543	131,771	80 04	20,197	15,133	7,981
Mackay companies 1927	354	62,891	354	26,515	92 91	1,309	610	

<sup>1</sup> Data not available.

Source: Interstate Commerce Commission

**No. 385.—LAND AND OCEAN-CABLE TELEGRAPH SYSTEMS COMBINED:  
FINANCIAL STATISTICS**

[All figures in thousands of dollars]

	1902	1912	1917	1922	1927
INCOME ACCOUNT					
Income, total	40,880	64,763	106,703	151,858	182,998
Telegraph traffic	35,301	60,403	106,990	146,805	177,589
From other sources	5,629	4,360	2,713	5,053	5,409
Expenses, total	30,948	58,379	91,871	127,991	159,158
Operation and maintenance	24,456	46,780	74,935	113,140	141,987
Interest and taxes	2,539	3,955	7,982	10,195	11,838
All other	3,953	7,644	8,954	4,656	5,328
Net income <sup>1</sup>	9,982	6,384	17,832	23,867	23,845
Dividends	6,257	6,180	9,817	10,716	14,199
BALANCE SHEET					
Assets	195,504	298,289	363,017	459,469	572,939
Plant and equipment	161,680	222,047	243,358	326,662	428,699
Securities and investments	25,940	33,934	56,035	78,839	52,270
Cash and current assets	7,884	42,308	63,624	53,969	93,970
Liabilities	195,504	298,289	363,017	459,469	572,939
Capital stock	117,053	163,646	167,260	177,204	180,095
Funded debt	45,893	62,741	61,828	71,394	97,037
Reserve	7,860	20,804	53,663	90,222	118,031
Other liabilities	6,619	35,248	45,484	50,133	64,557
Net surplus	18,079	15,850	34,782	70,517	113,219

<sup>1</sup> Includes charges for depreciation

<sup>2</sup> Includes payment for use of leased lines

<sup>3</sup> Total income less all expenses, including depreciation, for 1917, 1922, and 1927, does not include charges for sinking and other reserve funds

<sup>4</sup> Includes sinking funds and stock and bond discount.

Source: Bureau of the Census, Department of Commerce.

## No. 386.—LAND AND OCEAN-CABLE TELEGRAPH SYSTEMS: FINANCIAL STATISTICS

NOTE.—Western Union figures, which constitute the largest item of the totals, do not segregate land telegraph from ocean-cable business and are shown as totals under land telegraphs. Consequently, data in these columns overstate and those under ocean cables understate the true amounts

[All figures in thousands of dollars]

	Land systems				Ocean systems			
	1912	1917	1922	1927	1912	1917	1922	1927
<b>INCOME ACCOUNT</b>								
Income, total.....	58,293	92,954	130,539	162,880	8,470	16,749	21,319	30,137
Telegraph traffic.....	52,337	91,313	128,631	159,682	8,066	15,677	18,174	17,907
From other sources.....	3,956	1,642	1,908	3,178	404	1,072	3,145	2,230
Expenses.....	52,863	80,829	114,864	146,771	5,516	11,042	13,127	12,332
Net income.....	<sup>1</sup> 3,431	<sup>1</sup> 12,125	<sup>1</sup> 15,675	<sup>1</sup> 16,089	<sup>2</sup> 2,953	<sup>2</sup> 5,707	<sup>2</sup> 8,193	<sup>2</sup> 7,755
<b>BALANCE SHEET</b>								
<b>Assets</b> .....	190,708	226,407	321,913	412,720	107,583	136,610	137,557	160,219
Plant and equipment.....	<sup>3</sup> 143,911	<sup>3</sup> 163,488	254,030	338,143	<sup>3</sup> 78,136	<sup>3</sup> 79,871	72,632	88,556
Securities and investments.....	17,123	29,565	31,875	12,567	16,811	26,470	46,964	39,704
Cash and current assets.....	<sup>4</sup> 29,672	<sup>4</sup> 33,355	<sup>4</sup> 36,008	<sup>4</sup> 62,010	<sup>5</sup> 12,636	<sup>5</sup> 30,269	<sup>5</sup> 17,961	<sup>5</sup> 31,959
<b>Liabilities</b> .....	190,708	226,407	321,913	412,720	107,583	136,610	137,557	160,219
Capital stock.....	108,156	108,360	104,466	104,472	55,490	60,909	72,738	75,623
Funded debt.....	<sup>6</sup> 34,741	<sup>6</sup> 33,828	67,394	92,872	<sup>7</sup> 28,000	<sup>7</sup> 28,000	4,000	4,165
Reserves.....	5,255	20,677	46,773	64,607	15,549	33,036	43,449	53,424
Other liabilities.....	38,261	37,024	40,430	57,983	2,047	8,460	8,702	6,574
Net surplus.....	9,353	28,568	62,849	92,786	6,497	6,214	7,668	20,433

<sup>1</sup> Total income less all expenses, including depreciation, for 1917, 1922, and 1927 does not include charges for sinking and other reserve funds

<sup>2</sup> Not including land-line-system plant and equipment to the value of \$20,000,000 reported as cable-system plant and equipment for 1912 and 1917 (In statistics for preceding censuses an item of \$20,000,000 funded debt, offset by the same amount for plant and equipment, was carried against ocean-cable telegraphs. This debt being really a land-line-system debt and being so reported for 1922, is eliminated from the figures for ocean-cable system.)

<sup>3</sup> Includes land-line-system plant and equipment to the value of \$20,000,000 (see note <sup>2</sup>).

<sup>4</sup> Includes sinking funds and stock and bond discount

<sup>5</sup> Includes sinking and other special funds

<sup>6</sup> Not including land-line-system funded debt to the amount of \$20,000,000 reported as cable-system indebtedness in 1912 and 1917 (see note <sup>2</sup>)

<sup>7</sup> Includes land-line-system indebtedness to the amount of \$20,000,000 (see note <sup>2</sup>).

## No. 387.—LAND AND OCEAN-CABLE TELEGRAPH SYSTEMS COMBINED: EQUIPMENT, TRAFFIC, EMPLOYEES, SALARIES, AND WAGES

	1902	1912	1917	1922	1927
Miles of pole line <sup>1</sup> .....	237,990	247,528	241,128	252,991	256,809
Miles of single wire <sup>2</sup> .....	1,318,350	1,814,196	1,890,245	1,853,250	2,146,822
Aerial.....	( <sup>3</sup> )	( <sup>3</sup> )	1,809,482	1,718,251	1,940,069
Underground.....	( <sup>3</sup> )	( <sup>3</sup> )	77,187	131,448	200,811
Submarine.....	( <sup>3</sup> )	( <sup>3</sup> )	3,576	3,551	5,942
Nautical miles of ocean cable.....	16,677	67,676	71,251	76,711	104,541
Number of officers.....	27,377	30,864	28,940	27,354	27,666
Operated jointly with railway companies.....	( <sup>4</sup> )	26,247	23,272	21,906	21,449
Telegrams, thousands.....	91,655	109,378	<sup>4</sup> 127,074	191,121	229,511
Governmental.....	( <sup>5</sup> )	( <sup>5</sup> )	4,597	3,199	2,732
Full commercial rate.....	( <sup>5</sup> )	( <sup>5</sup> )	110,618	175,847	214,093
Contract rate and free.....	( <sup>5</sup> )	( <sup>5</sup> )	11,858	12,675	12,686
Number of employees.....	27,627	37,205	51,574	68,632	81,498
Salaries and wages (\$1,000).....	15,040	24,963	39,644	76,162	99,520

<sup>1</sup> Exclusive of pole line owned and operated wholly by railway companies

<sup>2</sup> Exclusive of wire owned and operated wholly by railway companies, as follows: Reported by all railway companies, 1912, 314,329 miles, reported by railway companies having annual operating revenues of \$1,000,000 or more, 1917, 344,110 miles, 1922, 285,002 miles; 1927, 333,898 miles No data for 1902

<sup>3</sup> Figures not available

<sup>4</sup> In addition, 31,102,577 lettergrams, not distributed according to rate, were reported by land systems.

Source of Tables 386 and 387 Bureau of the Census, Department of Commerce.

# No. 388.—LAND AND OCEAN-CABLE TELEGRAPH SYSTEMS: EQUIPMENT, TRAFFIC, EMPLOYEES, SALARIES AND WAGES

NOTE.—The land business and the ocean business of the Western Union Telegraph Co. are not segregated in this table for 1912. The total (estimated) number of messages in 1912 was 103,536,418 on land systems and 5,841,280 on ocean systems.

	Land systems				Ocean systems			
	1912	1917	1922	1927	1912	1917	1922	1927
Miles of pole line <sup>1</sup> .....	247,528	241,012	252,991	254,720	-----	116	-----	2,089
Miles of single wire <sup>2</sup> .....	1,814,186	1,888,798	1,845,287	2,143,688	( <sup>3</sup> )	1,452	8,013	3,138
Aerial.....	( <sup>3</sup> )	1,804,325	1,714,211	1,938,833	( <sup>3</sup> )	1,157	4,040	1,736
Underground.....	( <sup>3</sup> )	76,892	127,475	198,911	( <sup>3</sup> )	295	3,973	1,900
Submarine.....	( <sup>3</sup> )	3,576	3,551	5,942	-----	-----	-----	-----
Nautical miles of ocean cable.....	-----	-----	-----	-----	67,676	71,251	76,711	104,541
Number of offices.....	30,781	28,826	27,214	27,560	83	114	140	106
Operated jointly with railway companies.....	26,247	23,272	21,906	21,449	-----	-----	-----	-----
Telegrams, thousands.....	108,533	120,623	181,519	222,062	2,845	8,451	9,608	7,449
Governmental.....	( <sup>3</sup> )	4,309	3,150	2,678	( <sup>3</sup> )	288	69	44
Full commercial rate.....	( <sup>3</sup> )	106,159	168,750	206,837	( <sup>3</sup> )	4,470	9,117	7,266
Contract rate and free.....	( <sup>3</sup> )	10,154	11,659	12,557	( <sup>3</sup> )	1,704	417	129
Number of employees.....	35,639	47,227	62,299	77,235	1,656	4,347	6,333	4,203
Salaries and wages (\$1,000)....	23,798	36,392	68,737	93,413	1,167	3,252	7,425	6,108

<sup>1</sup> Exclusive of pole line owned and operated wholly by railway companies.

<sup>2</sup> Exclusive of wire owned and operated wholly by railway companies, as follows: Reported by all railway companies, 1912, 314,320 miles, reported by railway companies having annual operating revenues of \$1,000,000 or more, 1917, 344,110 miles, 1922, 285,002 miles, 1927, 333,898 miles.

<sup>3</sup> Figures not available.

<sup>4</sup> In addition, 31,102,577 lettergrams, not distributed according to rate, were reported.

# No. 389.—WESTERN UNION TELEGRAPH CO.: MILEAGE OF LINES AND WIRES, NUMBER OF OFFICES, AND FINANCES

Year ended—	Miles of pole line and cable	Miles of wire	Number of offices	Receipts	Expenses	Net income
June 30—				<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>
1867.....	46,270	85,291	2,565	6,568,925	3,944,006	2,624,920
1870.....	54,109	112,191	3,972	7,138,738	4,910,772	2,227,966
1875.....	72,833	179,496	6,565	9,564,575	6,335,415	3,229,158
1880.....	85,645	233,534	9,077	12,782,895	6,948,957	5,833,938
1885.....	147,500	462,283	14,184	17,706,834	12,005,910	5,700,924
1890.....	183,017	678,997	19,382	22,387,029	15,074,304	7,312,725
1895.....	189,714	802,651	21,360	22,218,019	16,076,630	6,141,389
1900.....	192,705	933,153	22,900	24,758,570	18,593,206	6,165,364
1905.....	200,224	1,184,557	23,814	29,033,635	21,845,570	7,188,065
1910.....	214,360	1,429,049	24,825	33,889,202	26,614,302	7,274,900
1913.....	238,033	1,558,181	26,000	47,423,443	42,939,934	4,483,508
Dec 31—						
1913.....	237,997	1,562,170	25,060	46,899,267	42,327,121	4,572,146
1914.....	240,231	1,609,346	25,784	47,287,358	40,578,751	6,708,607
1915.....	238,940	1,610,709	25,142	52,477,721	40,972,541	11,505,180
1916.....	237,664	1,627,342	25,234	63,621,601	49,894,346	13,727,255
1917.....	228,766	1,626,963	25,466	78,480,223	62,783,006	15,697,217
1918.....	247,803	1,382,547	25,452	88,093,247	76,713,028	11,380,219
1919.....	245,560	1,433,978	25,159	104,082,147	90,312,033	13,770,114
1920.....	246,214	1,449,710	24,881	121,473,685	108,134,041	13,339,644
1921.....	246,064	1,521,085	24,632	105,228,075	95,542,563	9,685,512
1922.....	242,729	1,534,009	24,580	107,118,306	93,910,954	13,207,352
1923.....	244,001	1,557,309	24,678	113,628,470	99,982,165	13,646,305
1924.....	246,742	1,593,963	24,478	115,235,563	101,815,734	13,419,829
1925.....	246,307	1,635,236	24,428	129,151,617	112,861,632	16,289,985
1926.....	249,916	1,668,293	24,688	136,468,026	121,098,832	15,369,194
1927.....	251,756	1,738,140	24,715	134,460,816	119,328,218	15,132,598
1928.....	255,088	1,859,632	24,842	139,387,321	123,817,517	15,569,804

<sup>1</sup> Estimated.

<sup>2</sup> Includes special payment to employees, \$1,166,424.

<sup>3</sup> Figures readjusted.

<sup>4</sup> Corporate and Federal.

Sources: Table 388, Bureau of the Census, Department of Commerce, Table 389, Annual Reports of the Western Union Telegraph Co.



## 18.—POWER—ELECTRIC AND OTHER

[Data in this section relate to continental United States]

### No. 390.—ANNUAL SUPPLY OF ENERGY FROM MINERAL FUELS AND WATER POWER IN THE UNITED STATES

NOTE.—The figures, except coal equivalent, represent the equivalent of the heating power of the classes of fuel in trillions of British thermal units. Data represent production, except those for oil imports, and take no account of changes in stocks

Annual average or year	Anthracite coal	Bituminous coal	Total coal	Domestic oil	Natural gas	Imported oil	Water power <sup>1</sup>	Grand total fuels and water power	Equivalent in bituminous coal <sup>2</sup>	
									Million tons (2,000 lbs.)	Per capita, tons
1871-1875.....	637	754	1,391	40	-----	-----	(1)	1,520	58	1.4
1876-1880.....	718	955	1,673	101	-----	-----	(1)	1,857	71	1.5
1881-1885.....	985	1,563	2,548	153	24	-----	(1)	3,110	119	2.2
1886-1890.....	1,195	2,474	3,669	198	264	-----	(1)	4,221	161	2.7
1891-1895.....	1,453	3,286	4,739	307	166	-----	104	5,316	203	3.0
1896-1900.....	1,513	4,403	6,006	357	198	-----	129	6,690	255	3.5
1901-1905.....	1,818	7,140	8,958	612	323	-----	209	10,102	386	4.8
1906-1910.....	2,207	9,783	11,990	1,037	470	1	369	13,867	529	5.9
1911-1915.....	2,427	11,527	13,954	1,486	619	72	591	16,722	638	6.6
1916-1920.....	2,523	13,981	16,504	2,176	820	297	851	20,648	788	7.6
1921-1925.....	2,112	12,610	14,722	3,888	1,024	569	1,105	21,308	813	7.3
1913.....	2,490	12,535	15,025	1,491	626	102	588	17,831	681	7.1
1918.....	2,688	15,180	17,868	2,136	775	226	837	21,842	834	8.1
1925.....	1,681	13,625	15,306	4,582	1,278	371	1,290	22,827	871	7.5
1926.....	2,297	15,022	17,319	4,625	1,411	362	1,492	25,299	962	8.2
1927.....	2,179	13,565	15,744	5,407	1,554	350	1,687	24,742	944	8.0
Per cent of total—										
1901-1905.....	18.0	70.7	88.7	6.1	3.2	-----	2.1	100.0	-----	-----
1911-1915.....	14.5	68.9	83.4	8.9	3.7	0.4	3.5	100.0	-----	-----
1921-1925.....	9.9	59.2	69.1	18.2	4.8	2.7	5.2	100.0	-----	-----
1927.....	8.8	54.8	63.6	21.9	6.3	1.4	6.8	100.0	-----	-----

<sup>1</sup> The fuel equivalent for water power is calculated from the reported horsepower of installed water wheels. Prior to 1890 data were unsatisfactory, but estimates are included in the total

<sup>2</sup> Calculated at 26,200,000 British thermal units per ton

<sup>3</sup> Based on the amount of coal displaced by gas, as estimated by the gas companies at the time.

Source Bureau of Mines, Department of Commerce.

### No. 391.—ELECTRICITY PRODUCED, CONSUMPTION OF FUEL, AND CAPACITY OF GENERATORS IN PUBLIC-UTILITY POWER PLANTS

NOTE.—Data prior to 1919 are totals for central stations and electric railways as reported by Bureau of the Census; thereafter they are estimated totals for all plants, based on returns from about 3,500 plants in 1919 to about 3,800 in 1928, each producing 10,000 kilowatt-hours or more per month, engaged in public service, including central stations, electric railways, steam railroads generating electricity for traction, and certain other plants. The capacity of plants reporting is about 95 per cent of that of all plants

Calendar year	Production of electricity			Consumption of fuel			Consumption—Coal or coal equivalent		Capacity of generators
	Total	Water power	Fuel power	Coal	Fuel oil	Gas	Total	Per kilowatt-hour	
	Million kilowatt-hours	Million kilowatt-hours	Million kilowatt-hours	Thousand tons <sup>1</sup>	Thousand barrels <sup>2</sup>	Million cubic feet	Thousand tons <sup>1</sup>	Pounds	Thousand kilowatts
1902.....	4,768	-----	-----	-----	-----	-----	-----	-----	2,112
1907.....	10,621	-----	-----	-----	-----	-----	-----	-----	4,432
1912.....	17,872	-----	-----	-----	-----	-----	-----	-----	7,670
1917.....	32,679	-----	-----	-----	-----	-----	-----	-----	11,919
1919.....	38,921	14,606	24,315	35,100	11,050	21,406	38,880	3.2	13,094
1920.....	43,555	16,150	27,405	37,124	13,123	24,702	41,420	3.0	14,399
1921.....	40,975	14,970	26,005	31,585	12,045	23,722	35,240	2.7	15,483
1922.....	47,654	17,207	30,447	34,179	13,197	27,172	38,000	2.5	15,971
1923.....	55,665	19,343	36,322	38,966	14,684	31,433	43,522	2.4	17,369
1924.....	59,014	19,969	39,044	37,556	16,630	48,443	43,130	2.2	19,519
1925.....	65,870	22,356	43,514	40,222	10,246	46,521	44,780	2.1	23,619
1926.....	73,791	26,189	47,602	41,311	9,399	53,207	45,856	1.95	25,398
1927.....	80,205	29,875	50,330	41,888	6,782	62,919	45,910	1.84	27,691
1928.....	87,850	34,606	53,154	41,350	7,158	77,326	46,387	1.76	29,630

<sup>1</sup> Of 2,000 pounds.

<sup>2</sup> Of 42 gallons.

<sup>3</sup> Partly estimated.

Sources. 1902 to 1917, Bureau of the Census, Department of Commerce; thereafter, Geological Survey, Department of the Interior

# No. 392.—PRODUCTION OF ELECTRIC POWER AND CAPACITY OF GENERATORS IN PUBLIC UTILITY POWER PLANTS: BY STATES

[Production in millions of kilowatt-hours; capacity of generators in thousands of kilowatts]

Division and State	Production of electric power										Capac- ity of gen- erators, 1928
	Total						Generated by water power		Generated by fuel power		
	1920	1922	1924	1926	1927	1928	1920	1928	1920	1928	
United States.....	43,555	47,654	59,014	73,791	80,205	87,850	16,150	34,696	27,405	53,154	29,630
New England.....	3,407	3,730	4,325	5,166	5,471	5,959	1,134	2,378	2,273	3,581	2,566
Maine.....	332	405	474	544	627	694	344	690	9	4	193
New Hampshire.....	97	196	216	264	276	302	61	268	36	33	102
Vermont.....	200	137	224	265	268	452	196	445	4	8	170
Massachusetts.....	1,740	1,850	2,093	2,499	2,609	2,751	358	680	1,382	2,071	1,806
Rhode Island.....	334	411	427	476	496	490	6	5	328	485	248
Connecticut.....	684	731	896	1,118	1,195	1,270	169	290	515	980	537
Middle Atlantic.....	12,349	13,062	16,306	20,527	21,717	22,657	3,665	6,525	8,684	16,132	7,408
New York.....	6,939	7,421	9,289	11,333	11,989	13,030	3,080	5,573	8,909	7,458	4,139
New Jersey.....	1,006	1,112	1,304	1,737	1,904	2,085	2	82	1,094	2,053	674
Pennsylvania.....	4,311	4,529	5,713	7,457	7,825	7,542	633	920	3,681	6,622	2,572
East North Central.....	9,958	10,876	13,791	17,664	18,843	20,947	1,322	2,627	8,576	18,320	6,754
Ohio.....	2,920	3,043	3,702	4,761	4,950	5,539	28	44	2,902	5,494	1,846
Indiana.....	933	1,077	1,398	1,758	1,864	1,939	35	128	898	1,832	687
Illinois.....	3,043	3,483	4,665	5,930	6,319	6,969	185	262	2,858	6,704	2,178
Michigan.....	2,093	2,180	2,697	3,393	3,774	4,347	672	1,138	1,421	3,208	1,322
Wisconsin.....	960	1,094	1,430	1,821	1,936	2,106	463	1,055	497	1,051	722
West North Central.....	3,179	3,568	3,934	4,587	4,841	5,126	1,166	1,757	2,013	3,389	2,068
Minnesota.....	703	788	870	1,040	1,054	1,065	410	712	293	353	484
Iowa.....	1,017	1,042	1,175	1,345	1,411	1,521	662	888	354	633	449
Missouri.....	698	871	889	913	958	991	46	75	652	916	487
North Dakota.....	28	32	39	48	57	85	—	—	28	85	47
South Dakota.....	48	56	66	80	88	106	15	12	33	94	52
Nebraska.....	217	284	338	395	431	464	13	35	235	430	148
Kansas.....	438	496	557	766	842	893	21	37	417	857	360
South Atlantic.....	3,980	4,851	5,950	7,197	8,768	10,500	1,614	5,532	2,365	4,968	3,754
Delaware.....	76	85	88	119	120	100	—	—	76	100	32
Maryland.....	263	394	482	558	602	1,477	3	878	280	599	610
District of Columbia.....	255	282	315	381	414	467	—	—	255	456	170
Virginia.....	521	638	744	926	1,089	1,168	203	315	318	854	408
West Virginia.....	1,128	1,351	1,763	1,807	2,048	2,045	23	173	1,105	1,872	570
North Carolina.....	260	443	647	1,117	2,087	2,225	208	1,968	51	257	758
South Carolina.....	730	809	944	1,038	1,117	1,399	673	1,264	57	135	491
Georgia.....	595	628	749	711	710	981	491	906	104	75	358
Florida.....	133	160	218	510	582	637	13	17	120	619	358
East South Central.....	1,464	1,535	2,064	3,049	3,408	3,328	840	2,641	623	685	1,497
Kentucky.....	276	315	405	514	566	625	—	285	276	340	339
Tennessee.....	573	512	694	894	929	950	441	707	132	249	328
Alabama.....	550	647	890	1,583	1,867	1,995	390	1,649	150	46	771
Mississippi.....	66	60	74	59	46	50	—	—	66	50	57
West South Central.....	1,230	1,463	1,923	2,640	3,315	4,035	7	53	1,222	3,982	1,239
Arkansas.....	119	131	155	164	167	150	1	40	117	110	91
Louisiana.....	219	250	308	520	683	821	—	—	219	821	147
Oklahoma.....	214	266	331	463	676	844	2	4	212	839	284
Texas.....	679	817	1,129	1,493	1,839	2,221	4	9	675	2,212	716
Mountain.....	2,581	2,890	2,963	3,425	3,520	3,913	2,247	3,428	334	490	972
Montana.....	1,126	985	1,145	1,408	1,395	1,619	1,110	1,605	7	14	226
Idaho.....	561	616	793	811	806	948	589	946	2	2	224
Wyoming.....	47	39	54	59	66	84	2	29	44	54	44
Colorado.....	397	408	490	562	551	541	185	227	213	314	213
New Mexico.....	15	17	20	26	33	52	1	1	14	51	25
Arizona.....	159	145	153	172	279	336	107	285	53	51	99
Utah.....	212	146	267	350	338	283	212	281	(1)	1	132
Nevada.....	34	39	42	37	51	55	33	53	1	2	10
Pacific.....	5,408	6,178	7,748	9,537	10,322	11,382	4,094	8,754	1,314	1,628	3,382
Washington.....	1,197	1,286	1,504	1,808	2,122	2,361	1,154	2,235	43	120	606
Oregon.....	476	513	678	831	845	1,041	141	371	105	287	268
California.....	3,736	4,380	5,566	6,898	7,356	7,980	2,569	6,765	1,167	1,215	2,508

<sup>1</sup> Less than 500,000 kilowatt-hours

Source: Geological Survey, Department of the Interior.

**No. 393.—CENTRAL ELECTRIC STATIONS: EQUIPMENT, EMPLOYEES, OUTPUT, AND SALES**

NOTE.—A central electric station is one selling current to public or private consumers, or a municipal plant supplying current for streets, public buildings, etc. Isolated or private plants operated solely for the benefit of the owner in connection with factories, mines, stores, hotels, institutions, etc., which in the aggregate produce great quantities of current, are not included. The business of electric street railways is shown only so far as that portion of their business relating to the sale of current can be segregated. Electric plants operated by the Federal or State Governments are excluded even when they sell current to private consumers. One central electric station often sells current to another, so that there is considerable duplication in total sales. Net sales are considerably less than current generated because of wire losses, self consumption, etc.

	All central electric stations					
	1902	1907	1912	1917	1922	1927
Number of stations <sup>1</sup> .....	3, 620	4, 714	5, 221	6, 542	6, 355	4, 334
Prime movers, horsepower.....thousands..	1, 845	4, 098	7, 530	12, 937	19, 851	35, 710
Steam engines.....	1, 394	1, 876	1, 895	1, 702	1, 371	1, 057
Steam turbines.....		817	3, 054	6, 747	12, 355	24, 261
Water wheels and turbines.....		1, 349	2, 469	4, 277	5, 822	9, 844
Internal-combustion engines.....	12	56	111	210	303	548
Dynamos.....						
Number.....	12, 484	12, 173	12, 610	13, 428	12, 701	11, 967
Kilowatt capacity.....thousands..	1, 212	2, 709	5, 165	8, 994	14, 313	25, 811
Output.....millions of kilowatt hours..			14, 183	31, 044	50, 274	96, 829
Generated.....	2, 507	5, 862	11, 569	25, 438	40, 292	74, 687
Purchased.....	(?)	(?)	2, 614	5, 006	9, 883	22, 142
Sold.....	(?)	(?)	(?)	25, 752	41, 965	79, 011
Sales to ultimate consumers.....	(?)	(?)	(?)	(?)	32, 948	63, 612
Sales for resale.....	(?)	(?)	(?)	(?)	9, 017	15, 399
Number of customers.....thousands..	(?)	1, 947	3, 838	7, 179	12, 710	21, 790
Salaried employees.....number.....	6, 996	12, 990	26, 093	35, 406	55, 112	101, 881
Salaries.....1,000 dollars.....	5, 664	11, 734	24, 307	36, 788	86, 951	(?)
Wage earners.....number.....	4 23 330	4 34, 642	5 53, 242	5 70, 135	5 95, 650	5 149, 605
Wages.....1,000 dollars.....	14, 983	23, 687	36, 855	58, 454	125, 481	(?)

<sup>1</sup> The term "station" as here used may represent a single electric station or a number of stations operated under the same ownership

<sup>2</sup> Figures not available

<sup>3</sup> Salaries and wages were not reported for 1927 by municipal plants. Commercial plants reported 95,917 salaried employees, with salaries amounting to \$166,340,946, and 138,796 wage earners, with wages amounting to \$201,290,810. The percentages which the salaried employees and wage earners reported by the commercial plants formed of the corresponding totals for both commercial and municipal plants were 94.6 and 92.8, respectively.

<sup>4</sup> Average number for the year

<sup>5</sup> Number Sept. 16, 1912; Sept. 29, 1917; June 30, 1922; and June 30, 1927, or nearest representative day.

**No. 394.—CENTRAL ELECTRIC STATIONS: EQUIPMENT, EMPLOYEES, AND FINANCES OF COMMERCIAL AND MUNICIPAL STATIONS**

NOTE.—See headnote to Table 393

	Commercial stations				Municipal stations			
	1912	1917	1922	1927	1912	1917	1922	1927
Number of establishments.....	3, 659	4, 224	3, 774	2, 137	1, 562	2, 318	2, 581	2, 198
Horsepower of prime movers.....thousands..	6, 971	12, 078	18, 571	33, 661	550	859	1, 280	2, 049
Capacity of dynamos.....thousands of kw.....	4, 769	8, 412	13, 407	24, 383	397	582	906	1, 428
Current millions of kw hrs.....	13, 557	29, 812	47, 843	92, 299	626	1, 232	2, 441	4, 529
Generated.....	11, 032	24, 399	38, 413	71, 307	537	1, 039	1, 778	3, 379
Purchased.....	2, 525	5, 413	9, 420	20, 992	89	1, 098	563	1, 150
Sold.....								
To ultimate consumers.....	(1)	24, 723	30, 941	60, 537	(1)	1, 029	2, 007	3, 075
For resale.....			8, 971	14, 808			45	591
Customers.....thousands..	3, 312	6, 202	11, 065	19, 661	526	977	1, 645	2, 129
Employees.....number.....	71, 395	94, 679	136, 105	234, 713	7, 940	10, 862	14, 657	16, 273
Income.....1,000 dollars.....	279, 054	486, 634	986, 684	1, 841, 227	23, 219	40, 260	85, 436	122, 437
Expenses.....do.....	217, 660	395, 127	792, 496	1, 518, 255	16, 917	31, 441	87, 129	(1)
Assets.....do.....	2, 490, 023	3, 631, 973	5, 504, 614	12, 950, 388	86, 521	148, 345	288, 623	(1)
Value of plant and equipment.....1,000 dollars.....	2, 098, 613	2, 933, 017	4, 229, 356	8, 880, 291	77, 065	127, 375	235, 660	417, 097

<sup>1</sup> Not called for on schedule

<sup>2</sup> Includes plant and equipment valued at \$902,057,279, not separated as to electric light and power and other properties

Source of Tables 393 and 394 Bureau of the Census, Department of Commerce.

## No. 395.—CENTRAL ELECTRIC STATIONS: STATISTICS OF COMMERCIAL

[See headnote]

Division and State	Horsepower of prime movers (thousands)				Millions of kilowatt-hours generated			
	Total		Steam engines and turbines and internal-combustion engines, 1927	Water wheels and turbines, 1927	1907	1912	1917	1922
	1923	1927						
<b>Continental United States</b> .....	19,851	35,710	25,866	2,844	5,822	11,563	25,438	40,232
<b>New England</b> .....	1,980	3,009	2,250	759	474	865	1,336	2,970
Maine.....	128	252	50	202	66	117	166	278
New Hampshire.....	72	157	61	96	55	127	160	95
Vermont.....	139	204	20	184	30	43	65	218
Massachusetts.....	1,065	1,529	1,340	189	219	386	937	1,493
Rhode Island.....	222	264	262	2	36	62	162	342
Connecticut.....	354	603	517	86	67	131	246	544
<b>Middle Atlantic</b> .....	5,060	8,615	6,907	1,708	2,009	3,549	7,659	10,766
New York.....	2,684	4,212	2,783	1,424	1,452	2,175	3,829	5,431
New Jersey.....	475	1,004	997	7	141	384	781	1,058
Pennsylvania.....	1,901	3,399	3,122	277	417	990	3,049	4,277
<b>East North Central</b> .....	4,588	8,668	7,866	802	1,076	2,528	5,757	9,368
Ohio.....	1,212	2,354	2,331	23	217	309	1,084	2,404
Indiana.....	451	870	822	48	130	237	441	795
Illinois.....	1,405	2,904	2,838	66	468	1,151	2,210	3,090
Michigan.....	945	1,619	1,263	356	208	526	1,504	2,103
Wisconsin.....	575	921	612	309	53	215	518	976
<b>West North Central</b> .....	1,610	2,671	2,227	444	386	713	1,776	2,989
Minnesota.....	312	516	342	174	88	186	441	589
Iowa.....	331	649	443	206	38	67	615	859
Missouri.....	429	648	626	22	147	233	266	701
North Dakota.....	43	56	56	-----	8	12	23	40
South Dakota.....	53	70	63	7	14	25	32	62
Nebraska.....	155	250	229	21	32	56	130	246
Kansas.....	286	482	468	14	60	133	270	473
<b>South Atlantic</b> .....	1,910	4,394	2,695	1,699	266	730	1,745	3,789
Delaware.....	-----	-----	-----	-----	-----	-----	-----	-----
Maryland.....	430	695	669	26	78	118	326	622
Dist. of Columbia.....	-----	-----	-----	-----	-----	-----	-----	-----
Virginia.....	163	502	404	98	10	29	108	319
West Virginia.....	393	755	670	85	25	42	204	1,196
North Carolina.....	231	773	301	472	13	71	372	404
South Carolina.....	449	700	164	536	69	357	500	844
Georgia.....	149	609	136	473	59	88	184	268
Florida.....	95	360	351	9	12	26	51	131
<b>East South Central</b> .....	717	1,447	779	668	119	228	1,049	1,420
Kentucky.....	135	395	257	138	37	76	123	232
Tennessee.....	204	456	283	173	35	76	565	493
Alabama.....	320	508	151	357	31	49	331	634
Mississippi.....	59	88	88	-----	16	28	30	62
<b>West South Central</b> .....	626	1,582	1,532	31	139	234	483	1,041
Arkansas.....	57	131	117	14	12	18	39	84
Louisiana.....	44	277	277	-----	26	18	26	52
Oklahoma.....	162	300	295	2	25	49	101	243
Texas.....	362	855	840	15	76	149	317	662
<b>Mountain</b> .....	1,005	1,406	386	1,020	331	845	2,036	2,209
Montana.....	356	378	15	363	137	379	965	988
Idaho.....	209	307	4	303	10	116	145	531
Wyoming.....	41	48	44	4	5	12	27	39
Colorado.....	153	269	190	79	123	165	274	290
New Mexico.....	20	33	32	1	5	9	17	22
Arizona.....	82	153	48	105	9	33	66	147
Utah.....	129	199	50	149	62	87	487	146
Nevada.....	16	19	3	16	30	45	54	45
<b>Pacific</b> .....	2,355	3,337	1,224	2,713	1,012	1,878	3,097	5,759
Washington.....	512	848	149	696	258	71	242	1,144
Oregon.....	107	308	139	169	93	59	108	267
California.....	1,735	2,781	936	1,845	662	1,747	2,747	4,318

¹ Less than 500,000 kilowatt-hours.

AND MUNICIPAL PLANTS WITH CURRENT GENERATED AND SOLD, BY STATES  
to Table 393]

Millions of kilowatt-hours generated—Continued			Millions of kilowatt hours sold, 1927—		Income (in thousands of dollars), 1927—		Division and State
1927	Commercial stations, 1927	Municipal stations, 1927	To ultimate consumers	For resale	From sale of electric current to ultimate consumers	From electric current sold for resale	
74, 686	71, 307	3, 379	63, 612	15, 369	1, 667, 045	135, 610	Continental United States.
4, 750	4, 660	90	3, 956	1, 868	138, 141	18, 653	New England.
561	557	4	473	41	9, 819	420	Maine.
226	225	1	151	27	6, 697	298	New Hampshire.
339	322	17	127	195	4, 897	1, 667	Vermont.
2, 245	2, 182	63	2, 019	988	75, 943	10, 578	Massachusetts.
411	411	—	378	376	12, 451	3, 355	Rhode Island.
968	963	5	808	241	28, 334	2, 335	Connecticut.
19, 282	19, 158	124	17, 669	3, 419	475, 197	24, 704	Middle Atlantic.
9, 918	9, 840	78	9, 378	1, 678	242, 482	10, 794	New York.
1, 862	1, 852	10	1, 688	52	68, 507	10, 557	New Jersey.
7, 502	7, 406	36	6, 803	1, 689	164, 208	13, 353	Pennsylvania.
18, 212	17, 329	883	15, 257	3, 840	403, 177	32, 408	East North Central.
4, 724	4, 429	295	4, 224	608	111, 878	6, 856	Ohio.
1, 746	1, 590	156	1, 522	411	45, 288	4, 014	Indiana.
6, 075	5, 876	199	4, 932	1, 938	128, 474	14, 147	Illinois.
3, 774	3, 597	177	3, 225	251	79, 040	2, 624	Michigan.
1, 893	1, 837	56	1, 354	542	38, 497	4, 767	Wisconsin.
4, 549	4, 134	415	4, 061	553	140, 750	9, 534	West North Central.
843	784	59	924	96	31, 045	1, 643	Minnesota.
1, 429	1, 375	54	685	180	26, 521	2, 990	Iowa.
891	839	52	1, 452	120	41, 978	1, 547	Missouri.
60	56	4	48	5	3, 799	223	North Dakota.
90	75	15	67	12	4, 797	402	South Dakota.
405	340	65	301	70	12, 627	1, 434	Nebraska.
831	665	166	584	70	19, 983	1, 295	Kansas.
8, 445	8, 187	258	7, 015	1, 961	153, 834	15, 869	South Atlantic.
1, 102	1, 085	17	1, 236	83	31, 615	1, 168	Delaware.
974	933	41	687	15	17, 120	161	Maryland.
1, 903	1, 902	1	970	1, 163	21, 481	6, 818	Dist. of Columbia.
2, 036	1, 997	39	1, 908	369	27, 313	4, 112	Virginia.
1, 116	1, 112	4	799	165	13, 032	1, 510	West Virginia.
746	733	13	980	141	20, 466	1, 563	North Carolina.
568	425	143	435	25	22, 807	537	South Carolina.
2, 777	2, 706	71	2, 455	1, 243	59, 820	9, 204	Georgia.
505	487	18	548	171	17, 086	1, 887	Florida.
937	914	23	748	271	18, 284	2, 257	East South Central.
1, 270	1, 264	6	1, 039	797	17, 790	5, 013	Kentucky.
65	41	24	120	4	6, 060	47	Tennessee.
3, 275	3, 123	152	2, 703	562	89, 947	5, 890	Alabama.
174	161	13	156	36	8, 421	403	Mississippi.
635	598	37	447	143	14, 412	1, 237	West South Central.
654	605	49	597	72	20, 692	1, 071	Arkansas.
1, 812	1, 759	53	1, 473	311	46, 422	3, 179	Louisiana.
3, 390	3, 329	61	2, 857	121	51, 159	1, 586	Oklahoma.
1, 399	1, 399	( <sup>2</sup> )	1, 197	11	10, 595	112	Texas.
713	704	9	264	21	5, 405	141	Mountain.
67	65	2	49	7	2, 533	211	Montana.
500	466	34	397	17	13, 942	326	Idaho.
33	32	1	26	2	1, 913	38	Wyoming.
280	279	1	202	46	5, 273	539	Colorado.
341	327	14	658	10	9, 832	155	New Mexico.
57	57	(1)	64	7	1, 666	64	Arizona.
10, 006	8, 681	1, 325	7, 439	1, 832	155, 020	17, 782	Utah.
2, 105	1, 639	466	1, 620	1, 394	25, 498	1, 394	Nevada.
840	810	30	658	48	13, 898	354	Pacific.
7, 061	6, 232	829	5, 161	1, 605	115, 624	16, 014	Washington.
							Oregon.
							California.

Source: Bureau of the Census, Department of Commerce.

## No. 396.—CENTRAL ELECTRIC STATIONS: FINANCIAL STATISTICS

[All figures in thousands of dollars See headnote to Table 393]

	Commercial electric stations						Municipal electric stations
	1902	1907	1912	1917	1922	1927	1927
INCOME ACCOUNT							
Income, total.....	78, 738	161, 630	279, 054	486, 634	966, 684	1, 841, 327	122, 437
Electric service, total.....	77, 350	156, 000	264, 475	462, 474	936, 652	1, 680, 218	122, 437
Commercial and domestic light and power.....	57, 195	122, 885	205, 974	373, 280	773, 111	1, 424, 998	100, 649
Municipal lighting.....	16, 130	19, 772	27, 131	31, 462	40, 854	66, 141	11, 058
Sales to other public service corporations.....	4, 025	13, 343	30, 857	57, 207	122, 321	189, 079	10, 730
Value of free service.....	(1)	(1)	513	525	566	(1)	(1)
Interest and dividends from investments.....	(1)	(1)	4, 869	8, 807	16, 527	53, 959	(1)
Other sources.....	1, 386	5, 630	9, 710	15, 363	33, 305	107, 050	(1)
Expenses, total.....	62, 835	123, 880	217, 660	395, 127	792, 496	1, 318, 255	(1)
Fuel.....	10, 190	19, 825	30, 502	78, 286	146, 323	157, 912	-----
Current purchased.....	2, 007	6, 081	16, 913	35, 733	79, 637	143, 711	-----
Supplies, materials, and miscellaneous.....	14, 751	27, 897	27, 565	48, 118	80, 492	121, 529	-----
Rent of offices, conduits, etc.....	1, 272	2, 884	4, 214	9, 881	18, 626	(2)	-----
Salaries and wages.....	18, 767	31, 935	55, 659	86, 473	194, 148	367, 632	-----
Taxes.....	2, 655	6, 346	13, 117	29, 897	73, 128	150, 253	-----
Injuries, damages, insurance.....	1, 074	2, 070	3, 316	5, 145	10, 209	(1)	-----
Interest.....	12, 119	26, 842	46, 865	71, 145	125, 596	269, 602	-----
Depreciation.....	(1)	(1)	17, 989	26, 292	59, 273	107, 616	-----
Sinking and reserve funds.....	(1)	(1)	1, 520	4, 137	5, 064	(1)	-----

1 Not called for on schedule.

2 No comparable data.

Source: Bureau of the Census, Department of Commerce

## No. 397.—PROPORTION OF "ELECTRIFICATION" OF FACTORY POWER EQUIPMENT

Item	Horsepower (thousands)			
	1914	1923	1925	1927
Combined capacity of prime movers and electric motors using purchased current.....	22, 291	33, 057	35, 773	39, 035
Electric motors operated by prime movers owned by factories.....	4, 939	8, 819	10, 255	11, 216
Estimated capacity of prime movers used to actuate these motors.....	3, 550	6, 350	7, 380	8, 080
Electric motors using purchased current.....	3, 885	13, 333	15, 869	19, 144
Total last two items, "Electrified" equipment.....	7, 435	19, 683	23, 249	27, 224
Per cent of total power equipment.....	33	60	65	70
Capacity of all prime movers in factories.....	18, 406	19, 724	19, 904	19, 891

Source Basic figures from Bureau of the Census.

## No. 398.—RETAIL PRICES OF ELECTRICITY IN PRINCIPAL CITIES

NOTE.—Net price in cents per kilowatt hour, electricity for household use. For cities having more than one tariff for domestic consumers rates are shown for the schedule or schedules under which most residences are served. "Demand" is a term applied to an amount of current consumption bearing a given ratio to the capacity of consumers' installation as a basis for graduating rates. The method of determination varies from city to city. For example, in Buffalo the lighting demand is 25 per cent of the total installation, but not less than 250 watts. If the capacity of the total installation is 2,000 watts, the "demand" is 25 per cent of this, or 500 watts, and the first 60 hours' use amounts to 30 kilowatt hours and is subject to the first price schedule (5 cents, 1928); the next 120 hours' use (60 kilowatt hours) to the next rate (4 cents), and above 90 kilowatt hours to the excess rate (1½ cents). Measure of consumption as stated in second column refers to tariffs of 1928. For some cities primary and secondary rates applied to somewhat different amounts of current consumption in previous years. For full details see Monthly Labor Review, February, 1929.

City	Measure of consumption per month	December—							
		1913	1921	1923	1924	1925	1926	1927	1928
Atlanta	First 100 kilowatt hours	7 0	8 1	8 1	8 1	8 1	8 1	8 1	8 1
Baltimore	First 20 hours' use of demand	8 5	8 0	8 0	8 0	8 0	8 0	7 0	7 0
Birmingham	First 100 kilowatt hours	8 5	7 7	7 7	7 7	7 7	7 7	7 7	7 7
Boston	First 2 kilowatt hours per 100 square feet of floor area	10 0	11 0	9 5	9 5	8 5	8 5	8 5	8 5
Buffalo	First 60 hours' use of demand	7 0	7 0	6 0	6 0	5 0	5 0	5 0	5 0
	Next 120 hours' use of demand	5 0	4 0	4 0	4 0	4 0	4 0	4 0	4 0
	Excess	1 5	1 5	1 5	1 5	1 5	1 5	1 5	1 5
Chicago	First 3 kilowatt hours per room	10 0	9 0	8 0	8 0	8 0	8 0	8 0	7 0
	Next 3 kilowatt hours per room	5 0	5 0	5 0	5 0	5 0	5 0	5 0	5 0
	Excess	4 0	3 0	3 0	3 0	3 0	3 0	3 0	3 0
Cleveland	Company A, first 80 kilowatt hours	10 0	5 0	5 0	5 0	5 0	5 0	5 0	5 0
	Company B, all current	8 0	3 0	3 0	3 0	3 0	3 0	3 0	3 0
Columbus	First 75 kilowatt hours	7 0	7 0	7 0	7 0	7 0	7 0	7 0	7 0
Dallas	All current	10 0	6 0	6 0	6 0	6 0	6 0	6 0	6 0
Denver	First 15 kilowatt hours	8 0	8 0	8 0	8 0	8 0	8 0	7 0	7 0
Detroit	First 3 kilowatt hours per active room; minimum, 3 rooms	12 6	12 6	10 8	10 8	10 8	9 0	9 0	9 0
	Next 50 kilowatt hours	3 6	3 6	3 6	3 6	3 6	3 6	3 6	3 6
Fall River	First 25 kilowatt hours	9 5	10 5	9 0	9 0	9 0	8 5	8 5	8 0
	Next 75 kilowatt hours			8 5	8 5	8 5	7 5	7 5	5 0
	All current	7 0	7 0	7 0	7 0	7 0	7 0	7 0	7 0
Jacksonville	First 200 kilowatt hours	13 5	10 0	10 0	10 0	10 0	10 0	10 0	10 0
Los Angeles	First 50 kilowatt hours	5 5	6 2	5 6	5 6	5 6	5 6	5 0	5 0
Louisville	1 to 149 kilowatt hours	7 6	7 6	7 6	7 6	7 6	7 6	7 6	7 6
Memphis	First 6 kilowatt hours per room	10 0	9 0	8 0	8 0	8 0	8 0	8 0	8 0
	Excess			5 0	5 0	5 0	5 0	5 0	5 0
Mobile	First 50 kilowatt hours	7 0	9 0	9 0	9 0	9 0	9 0	9 0	9 0
Newark	First 20 kilowatt hours	10 0	10 0	9 0	9 0	9 0	9 0	9 0	9 0
	Next 30 kilowatt hours				8 0	8 0	8 0	8 0	8 0
New Haven	All current	9 0	8 5	7 5	7 0	6 5	6 5	6 0	5 5
New Orleans	First 10 kilowatt hours	13 0	9 1	9 1	9 1	9 1	9 1	9 1	9 1
	Next 30 kilowatt hours	6 0	7 8	7 8	7 8	7 8	7 8	7 8	7 8
New York	Company A, first 1,000 kilowatt hours	10 0	7 7	7 5	7 4	7 2	7 2	7 3	7 0
	Company B, all current	9 5	9 5	9 5	9 5	9 5	9 5	9 5	9 5
	Company C, first 60 hours' use of demand	11 0	8 7	8 5	8 3	7 8	7 8	7 3	7 0
Norfolk	First 100 kilowatt hours	9 0	9 0	9 0	9 0	9 0	9 0	8 5	8 5
Omaha	All current	11 4	6 0	5 5	5 5	5 5	5 5	6 6	5 5
Philadelphia	Company A, first 12 kilowatt hours	10 0	9 0	8 0	8 0	8 0	8 0	8 0	8 0
	Next 36 kilowatt hours		7 0	7 0	7 0	7 0	7 0	7 0	7 0
	Company B, first 20 kilowatt hours	10 0	10 0	9 0	9 0	9 0	9 0	9 0	9 0
	Next 30 kilowatt hours				8 0	8 0	8 0	8 0	8 0
Pittsburgh	First 10 kilowatt hours	10 0	8 0	8 0	8 0	8 0	8 0	8 0	8 0
	Next 20 kilowatt hours		6 0	5 5	5 5	5 5	5 5	5 5	5 5
Providence	All current	10 0	7 5	7 0	6 9	6 8	6 9	6 5	6 5
Richmond	First 100 kilowatt hours	9 0	9 0	9 0	9 0	9 0	9 0	8 5	8 5
Rochester	All current	8 0	8 0	8 0	8 0	8 0	8 0	8 0	8 0
St. Paul	First 3 kilowatt hours per room	9 9	9 9	9 9	9 9	9 9	9 9	9 5	8 5
	Next 3 kilowatt hours per room							7 1	7 1
	Excess	6 6	6 6	6 6	6 6	6 6	2 9	2 9	2 9
Salt Lake City	First 250 kilowatt hours	9 0	8 1	8 1	8 1	8 1	8 1	8 1	8 1
San Francisco	Company A, first 200 kilowatt hours	7 0	8 5	9 0	9 0	9 0	9 0	5 0	5 0
	Next 800 kilowatt hours			6 0	6 0	6 0	6 0	2 5	4 0
	Company B, first 200 kilowatt hours	7 0	8 5	9 0	9 0	9 0	9 0	9 0	5 0
	Next 800 kilowatt hours			6 0	6 0	6 0	6 0	6 0	4 0
Scranton	First 150 kilowatt hours	9 0	10 0	10 0	10 0	10 0	10 0	10 0	9 0
Seattle	First 40 kilowatt hours	6 0	6 0	5 5	5 5	5 5	5 5	5 5	5 5
Washington, D. C.	First 120 hours' use of demand	10 0	10 0	10 0	10 0	7 5	7 0	6 3	5 9

Source: Bureau of Labor Statistics, Department of Labor.

## No. 399.—DEVELOPED AND POTENTIAL WATER POWER

NOTE.—In thousands of horsepower. Data for developed water power cover capacity of actual installation of water wheels and turbines in plants of 100 horsepower or more. The figures for potential power are estimates showing the 24-hour horsepower available 90 per cent of the time and 50 per cent of the time at an over-all efficiency of 70 per cent at all developed and undeveloped sites. These figures for potential power are not directly comparable with those for developed power, because developed power is usually given in terms of the capacity of installed water wheels or turbines, which may be several times the potential power available 90 per cent of the time. Probably with complete development of the water-power resources of the whole country the installed capacity would amount to 80,000,000 horsepower or more.

Division and State	Developed water power (capacity of actual installation)							Potential water power available—	
	November, 1921	March, 1924	March, 1925	January, 1926	January, 1927	January, 1928	January, 1929	90 per cent of the time	50 per cent of the time
<b>Continental U. S.</b>	7,927	9,087	10,038	11,177	11,721	12,296	13,572	38,110	59,166
<b>New England</b>	1,311	1,387	1,399	1,485	1,535	1,558	1,654	998	1,978
Maine	450	473	477	497	526	537	539	536	1,074
New Hampshire	299	236	243	272	277	278	278	186	350
Vermont	130	168	168	193	200	200	260	80	169
Massachusetts	338	344	344	344	354	362	362	106	235
Rhode Island	30	30	30	30	30	30	30	25	40
Connecticut	134	136	136	148	148	148	184	65	110
<b>Middle Atlantic</b>	1,479	1,732	1,948	1,995	2,056	2,078	2,123	4,373	6,050
New York	1,292	1,543	1,714	1,750	1,757	1,779	1,814	4,010	4,960
New Jersey	17	19	19	19	19	19	19	50	90
Pennsylvania	170	170	226	226	280	280	291	313	1,000
<b>East North Central</b>	739	830	885	979	1,010	1,037	1,076	742	1,438
Ohio	29	30	30	29	30	30	30	55	166
Indiana	27	29	51	56	56	57	57	45	145
Illinois	85	85	87	94	94	94	94	189	361
Michigan	267	282	305	352	355	378	378	168	274
Wisconsin	331	404	413	446	474	477	517	285	480
<b>West North Central</b>	444	480	515	525	533	542	555	929	1,937
Minnesota	205	212	263	267	275	276	293	203	401
Iowa	173	177	177	179	180	184	182	169	395
Missouri	18	18	20	21	21	21	21	67	152
North Dakota	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	82	193
South Dakota	18	18	19	20	20	20	20	121	203
Nebraska	15	20	21	21	21	24	24	183	342
Kansas	15	15	14	17	17	17	16	104	251
<b>South Atlantic</b>	1,082	1,301	1,594	1,702	1,841	1,987	2,595	2,924	5,048
Delaware	3	3	3	1	1	1	1	5	10
Maryland	7	7	7	38	38	38	416	106	238
Dist. of Columbia	1	1	1	1	1	6	6		
Virginia	104	110	118	139	138	141	140	459	812
West Virginia	15	15	15	21	91	91	91	355	980
North Carolina	330	432	535	538	543	644	814	852	1,160
South Carolina	330	358	507	514	571	574	574	555	860
Georgia	286	369	400	441	449	463	544	572	958
Florida	7	7	9	9	9	8	9	20	30
<b>East South Central</b>	241	341	392	745	868	966	1,119	1,328	2,272
Kentucky	1	1	1	34	34	142	142	172	280
Tennessee	127	128	166	174	174	177	177	654	882
Alabama	113	211	224	537	659	646	799	472	1,050
Mississippi								30	40
<b>West South Central</b>	16	17	31	32	32	44	47	559	1,110
Arkansas	1	1	16	16	16	16	16	200	300
Louisiana								1	2
Oklahoma	2	2	2	2	2	2	2	70	194
Texas	13	14	14	14	15	27	29	288	614
<b>Mountain</b>	827	881	937	981	1,030	1,113	1,140	10,544	15,552
Montana	344	345	360	376	376	378	393	2,550	3,700
Idaho	224	271	299	319	320	355	358	2,122	4,032
Wyoming	8	8	8	10	10	17	17	704	1,182
Colorado	92	88	91	95	96	95	98	873	1,609
New Mexico	1	1	1	2	2	2	2	116	186
Arizona	39	39	49	49	59	104	104	2,759	2,887
Utah	106	115	115	115	153	153	154	1,420	1,566
Nevada	13	14	14	14	13	13	14	300	370
<b>Pacific</b>	1,799	2,138	2,336	2,733	2,815	2,988	3,268	15,413	23,793
Washington	454	480	561	656	657	707	747	7,145	11,225
Oregon	185	207	244	242	242	289	289	3,665	5,894
California	1,149	1,452	1,531	1,835	1,917	1,993	2,227	4,603	6,674
<b>Outlying areas:</b>									
Alaska		40	40	2 40	2 40	2 40	32	1,000	2,500
Hawaii		25	25	32	32	32	32	19	28
Porto Rico		15	15	2 15	2 15	2 15	2 15	100	200

<sup>1</sup> Less than 500

<sup>2</sup> Capacity in 1925; data for 1926, 1927, and 1928 not available.

Source. Geological Survey, Department of the Interior.



# 19.—PUBLIC ROADS AND MOTOR VEHICLES

## No. 400.—RURAL ROADS IN THE UNITED STATES

NOTE.—Mileage data included for county and township roads in 1921, 1926, and 1927 were secured from county records, data for other years shown in this and subsequent tables contain some estimates and are not as accurate as to detail. Mileage data in most cases refer to calendar years, there are, however, exceptions in several States. Data relate to continental United States only except as noted.

Item	1921	1923	1924	1925	1926	1927
<b>Mileage at end of year:</b>						
All types.....	2,941,284	2,995,727	3,002,917	3,006,082	3,006,190	3,018,584
Earth roads.....	2,553,534	2,556,386	2,535,011	2,484,822	2,450,126	2,424,862
Surfaced roads.....	387,760	439,341	467,906	521,260	556,064	588,721
Sand, clay, gravel, etc.....	263,238	290,143	307,904	360,518	408,917	433,533
Macadam.....	87,609	100,805	104,455	106,432	85,738	90,273
Sheet asphalt and concrete.....	22,190	33,983	40,850	48,507	53,202	59,885
Block pavements.....	14,723	14,409	14,637	5,803	5,206	5,030
<b>Mileage built during year:</b>						
All types.....	110,976	76,238	51,638	73,776	118,413	86,454
Earth roads.....	69,804	39,895	20,097	31,873	60,059	33,031
Surfaced roads.....	41,172	36,343	31,541	41,903	56,353	53,424
Sand, clay, gravel, etc.....	29,019	22,641	19,465	28,784	41,079	38,556
Macadam.....	5,413	6,665	4,801	6,060	8,368	7,484
Sheet asphalt and concrete.....	6,037	6,626	7,027	6,798	6,640	7,246
Block pavements.....	703	410	248	252	267	138
<b>Mileage of State highway systems at end of year:</b> <sup>1</sup>						
All types.....		251,611	259,721	274,911	287,928	293,353
Earth roads.....		140,211	131,374	130,057	124,869	116,786
Surfaced roads.....		111,400	128,347	144,854	163,059	176,566
Sand, clay, gravel, etc.....		58,909	63,401	73,796	90,682	98,675
Macadam.....		27,151	28,922	28,814	31,356	31,248
Sheet asphalt and concrete.....		22,476	28,008	33,059	37,642	43,313
Block pavements.....		2,865	3,017	3,185	3,380	3,330
<b>Mileage of State highway systems built during year:</b> <sup>2</sup>						
All types.....		30,311	23,164	23,152	27,887	26,722
Earth roads.....		5,814	5,957	5,316	7,060	7,151
Surfaced roads.....		14,496	17,207	17,836	20,327	19,572
Sand, clay, gravel, etc.....		7,852	9,045	10,905	13,073	11,132
Macadam.....		2,007	2,464	2,144	2,258	2,812
Sheet asphalt and concrete.....		4,389	5,525	5,540	4,550	5,580
Block pavements.....		248	164	146	137	60
<b>Funds available for rural road purposes during year, all authorities (1,000 dollars):</b>						
Total.....	1,149,438	1,199,432	1,358,508	1,560,994	1,740,380	1,941,221
Proceeds of bonds.....	438,109	216,969	269,190	285,815	272,422	272,060
Federal aid <sup>3</sup> .....	79,333	72,943	91,401	92,180	79,163	80,460
Motor vehicle fees and gasoline taxes.....	122,626	202,804	266,455	360,553	436,449	516,774
Other taxes and appropriations.....	415,680	416,038	415,155	467,705	491,194	527,477
All other sources.....	93,689	291,278	326,297	354,741	461,162	544,461
<b>Expenditures for rural roads and bridges (1,000 dollars):</b>						
All roads, by all authorities.....	1,036,588	996,781	1,181,521	1,288,940	1,300,546	1,448,121
Construction.....	626,965	518,293	637,030	651,933	616,941	689,219
Maintenance.....	248,593	265,898	297,179	315,877	338,853	376,754
Principal and interest of bonds.....	89,281	45,914	108,943	176,415	213,325	244,886
Equipment and miscellaneous.....	71,748	166,677	138,370	144,715	131,427	137,263
By or under supervision of State highway departments, incl. Federal aid.....	413,242	447,362	505,865	649,125	621,744	699,875
<b>Highway construction under Federal aid:</b> <sup>4</sup>						
Projects completed up to end of year—						
Miles.....		27,212	37,117	52,016	56,717	64,620
Total cost (1,000 dollars).....		460,943	632,487	962,920	1,051,456	1,240,302
Federal aid (1,000 dollars).....		197,713	276,305	424,964	465,019	548,299
Projects under construction—						
Miles.....		18,648	17,837	10,978	14,581	13,433
Total cost (1,000 dollars).....		350,550	394,971	264,113	365,730	353,497
Federal aid (1,000 dollars).....		164,389	176,575	111,284	151,490	145,627
Federal-aid fund available for new projects (1,000 dollars).....		70,636	55,627	119,771	113,070	110,803

<sup>1</sup> Includes miscellaneous roads, as follows: 1921, 11,303 miles; 1923, 9,975 miles; 1924, 9,996 miles.

<sup>2</sup> Includes miscellaneous roads, as follows: 1921, 368 miles; 1923, 46 miles; 1924, 21 miles.

<sup>3</sup> Data for total United States not compiled in 1921.

<sup>4</sup> Includes 16 miles miscellaneous roads.

<sup>5</sup> For road and bridge purposes under supervision of State highway department only.

<sup>6</sup> Includes data for Hawaii, as follows: Federal-aid fund available for new projects, beginning 1924; projects under construction (all items), 1925, all items in 1926 and 1927.

## No. 401.—RURAL ROAD MILEAGE AS OF DECEMBER 31

NOTE.—Lack of definite information in the earlier years accounts for the fact that in some of the States the total road mileage reported is considerably greater than in the preceding year shown, while mileage of surfaced roads is less. Figures include county and township roads and also State highway systems. (See also headline, Table 400)

Division and State	All types					Surfaced roads				
	1904	1914	1921	1926	1927	1904	1914	1921	1926	1927
<b>Continental U. S.</b> .....	2, 151, 379	2, 445, 761	2, 941, 294	3, 000, 190	3, 013, 584	153, 530	257, 292	387, 760	550, 064	588, 721
<b>New England</b> .....	88, 706	86, 718	83, 295	83, 521	83, 936	16, 797	18, 038	17, 725	23, 614	24, 631
Maine.....	25, 528	23, 577	21, 483	21, 003	21, 002	2, 324	2, 762	2, 953	4, 429	4, 832
New Hampshire.....	15, 116	14, 020	13, 841	11, 944	12, 025	1, 293	1, 660	1, 692	2, 218	2, 391
Vermont.....	14, 521	14, 249	14, 677	15, 036	15, 036	1, 954	1, 442	3, 545	4, 490	4, 691
Massachusetts.....	17, 092	18, 681	18, 868	19, 097	19, 348	7, 844	8, 506	6, 575	8, 280	8, 485
Rhode Island.....	2, 361	2, 170	2, 274	2, 469	2, 538	1, 022	693	754	876	853
Connecticut.....	14, 088	14, 061	12, 152	13, 972	13, 987	2, 360	2, 975	2, 206	3, 321	3, 379
<b>Middle Atlantic</b> .....	188, 417	185, 771	186, 935	187, 355	187, 407	10, 459	31, 516	38, 946	53, 298	62, 071
New York.....	73, 798	79, 398	81, 878	79, 517	79, 489	5, 876	15, 636	18, 506	26, 957	29, 481
New Jersey.....	14, 842	14, 817	14, 066	16, 665	16, 677	2, 422	5, 897	6, 459	7, 836	8, 057
Pennsylvania.....	99, 777	91, 566	90, 991	91, 173	91, 241	2, 161	9, 983	13, 921	23, 505	24, 533
<b>East North Central</b> .....	364, 775	405, 245	412, 753	416, 505	416, 526	72, 990	94, 365	124, 298	153, 853	160, 664
Ohio.....	69, 439	80, 354	84, 219	84, 872	84, 753	23, 400	30, 509	36, 008	42, 301	43, 977
Indiana.....	68, 306	73, 347	76, 246	73, 612	73, 603	23, 877	30, 963	39, 857	49, 440	50, 284
Illinois.....	94, 141	95, 647	96, 326	97, 620	97, 620	7, 924	11, 606	11, 473	16, 928	18, 118
Michigan.....	69, 266	74, 190	77, 283	81, 010	81, 016	7, 026	7, 829	17, 186	21, 688	22, 493
Wisconsin.....	63, 593	75, 707	78, 679	79, 391	79, 528	10, 633	13, 399	19, 714	23, 426	25, 792
<b>West North Central</b> .....	569, 190	650, 058	759, 890	772, 949	774, 637	11, 304	14, 968	30, 223	61, 509	69, 989
Minnesota.....	79, 324	93, 517	107, 103	110, 223	110, 249	6, 248	3, 968	16, 905	30, 011	32, 399
Iowa.....	102, 448	104, 074	104, 082	103, 115	103, 634	1, 664	615	2, 585	9, 284	11, 811
Missouri.....	108, 133	96, 041	111, 520	110, 366	110, 547	2, 733	6, 713	7, 879	11, 043	11, 739
North Dakota.....	59, 332	68, 796	106, 523	107, 410	106, 794	212	955	710	1, 874	2, 366
South Dakota.....	59, 295	96, 306	115, 485	118, 741	120, 265	151	363	548	3, 510	4, 087
Nebraska.....	79, 462	80, 272	86, 556	98, 992	98, 902	23	1, 205	496	3, 273	3, 979
Kansas.....	101, 196	111, 052	128, 551	129, 102	129, 246	273	1, 149	1, 100	2, 508	3, 608
<b>South Atlantic</b> .....	263, 933	297, 183	365, 567	366, 860	366, 545	9, 147	32, 154	61, 178	82, 282	89, 541
Delaware.....	3, 000	3, 674	3, 933	3, 797	3, 796	66	244	448	884	927
Maryland.....	16, 773	16, 459	14, 772	14, 632	14, 711	1, 570	2, 489	3, 663	4, 640	5, 307
Virginia.....	51, 812	53, 388	59, 080	59, 698	57, 535	1, 600	3, 910	7, 260	10, 542	11, 192
West Virginia.....	26, 178	32, 024	35, 173	34, 800	34, 799	254	1, 065	1, 307	3, 037	3, 713
North Carolina.....	49, 763	60, 758	68, 204	71, 529	71, 530	1, 259	6, 004	16, 755	26, 885	27, 811
South Carolina.....	41, 830	42, 226	61, 850	56, 079	56, 129	1, 878	3, 270	6, 908	12, 475	13, 841
Georgia.....	57, 203	80, 669	94, 912	97, 390	98, 462	1, 634	12, 342	18, 339	11, 416	13, 015
Florida.....	17, 374	17, 995	27, 643	28, 935	29, 583	886	2, 830	6, 438	12, 403	13, 735
<b>East South Central</b> .....	194, 913	205, 191	242, 745	245, 340	246, 232	15, 640	27, 626	41, 478	55, 274	58, 931
Kentucky.....	57, 137	57, 916	68, 704	61, 261	61, 261	9, 486	12, 403	15, 436	15, 236	15, 619
Tennessee.....	48, 989	46, 050	62, 546	64, 204	64, 490	4, 285	8, 102	9, 878	11, 238	12, 521
Alabama.....	50, 089	55, 446	58, 410	63, 251	63, 706	1, 720	4, 988	10, 420	17, 514	18, 204
Mississippi.....	38, 698	45, 779	53, 085	56, 624	56, 775	149	2, 133	5, 744	11, 286	12, 587
<b>West South Central</b> .....	226, 305	312, 182	416, 617	420, 534	419, 856	2, 398	13, 815	23, 988	40, 285	42, 187
Arkansas.....	36, 445	50, 743	74, 866	74, 285	74, 545	236	1, 098	3, 871	5, 981	6, 260
Louisiana.....	24, 897	24, 563	39, 803	35, 411	33, 120	34	2, 068	2, 771	8, 697	9, 501
Oklahoma.....	43, 554	107, 916	134, 263	122, 274	123, 627	---	122	2, 461	2, 930	3, 300
Texas.....	121, 409	128, 960	167, 685	188, 564	188, 564	2, 128	10, 527	14, 883	22, 677	23, 117
<b>Mountain</b> .....	122, 231	163, 117	306, 393	327, 058	334, 795	1, 499	4, 881	15, 539	25, 827	28, 574
Montana.....	22, 419	39, 204	64, 732	66, 987	66, 881	65	609	1, 772	2, 508	2, 799
Idaho.....	18, 163	24, 396	31, 099	32, 986	37, 349	212	679	2, 982	6, 961	7, 940
Wyoming.....	10, 447	14, 797	46, 528	45, 021	45, 328	153	468	440	1, 284	1, 861
Colorado.....	30, 214	39, 780	48, 143	65, 606	68, 279	178	1, 194	4, 598	5, 997	6, 383
New Mexico.....	15, 326	11, 873	45, 549	48, 028	48, 217	2	262	1, 802	1, 954	2, 144
Arizona.....	5, 987	12, 075	21, 227	21, 536	21, 666	217	253	1, 233	3, 070	3, 150
Utah.....	7, 090	8, 810	23, 047	23, 179	23, 416	608	1, 154	2, 544	2, 600	3, 001
Nevada.....	12, 585	12, 182	26, 057	23, 713	23, 659	64	262	168	1, 453	1, 796
<b>Pacific</b> .....	112, 909	140, 286	167, 180	180, 075	183, 649	13, 368	19, 928	34, 387	49, 126	52, 135
Washington.....	31, 998	42, 428	45, 816	46, 730	46, 835	1, 976	4, 922	12, 062	16, 483	16, 655
Oregon.....	34, 258	36, 819	45, 475	51, 743	51, 658	2, 589	4, 726	8, 050	11, 578	11, 815
California.....	46, 653	61, 039	75, 889	81, 602	85, 156	8, 803	10, 280	14, 275	21, 065	23, 665

<sup>1</sup> Includes about 26,000 miles of section lines declared public highways by law but which are not open for general traffic

Source: Bureau of Public Roads, Department of Agriculture

# No. 402.—RURAL ROAD MILEAGE AS OF DECEMBER 31, 1927, AND CONSTRUCTION OF ROADS DURING 1925, 1926, AND 1927

NOTE.—Figures include county and township roads and also State highway systems shown in Tables 403 and 404 See also headnote, Table 400

Division and State	Existing mileage, end of year 1927							Mileage graded and drained and mileage surfaced during—		
	Total, all types	Earth roads	Surfaced roads					1925 1	1926 2	1927 2
			Total	Sand-clay, gravel, etc.	Macadam	Sheet asphalt and concrete	Block pavements			
Continental U. S. ....	3, 013, 584	2, 424, 862	588, 721	433, 533	90, 273	59, 885	5, 030	73, 778	116, 413	86, 454
<b>New England</b> .....	83, 935	59, 303	24, 633	16, 984	5, 595	2, 029	25	1, 218	1, 343	1, 554
Maine.....	21, 002	16, 170	4, 832	4, 483	259	91	-----	326	187	449
New Hampshire.....	12, 024	9, 633	2, 392	1, 987	309	96	-----	157	214	179
Vermont.....	15, 036	10, 344	4, 692	4, 476	112	102	(3)	304	301	306
Massachusetts.....	19, 348	10, 863	8, 485	4, 492	3, 048	926	20	219	255	337
Rhode Island.....	2, 538	1, 685	853	197	408	245	3	86	84	88
Connecticut.....	13, 987	10, 608	3, 379	1, 349	1, 459	569	2	127	302	145
<b>Middle Atlantic</b> .....	187, 407	125, 336	62, 071	23, 821	24, 332	12, 731	1, 188	4, 317	5, 239	4, 399
New York.....	79, 489	50, 008	29, 481	6, 819	17, 719	4, 666	277	2, 038	2, 743	2, 166
New Jersey.....	16, 677	8, 620	8, 057	3, 830	1, 612	2, 503	113	549	557	534
Pennsylvania.....	91, 241	66, 708	24, 533	13, 172	5, 001	5, 562	798	1, 700	1, 939	1, 639
<b>East North Central</b> .....	416, 526	255, 862	160, 663	122, 700	13, 383	17, 378	2, 203	13, 827	18, 296	17, 795
Ohio.....	84, 753	40, 776	43, 977	28, 450	11, 134	2, 647	1, 746	2, 302	6, 268	4, 175
Indiana.....	73, 609	23, 325	50, 284	44, 205	3, 182	2, 662	235	1, 036	1, 329	1, 351
Illinois.....	97, 620	79, 502	18, 118	11, 206	522	6, 186	204	1, 598	1, 181	1, 367
Michigan.....	81, 016	55, 523	22, 492	17, 101	2, 153	3, 223	16	1, 064	1, 408	1, 494
Wisconsin.....	79, 528	53, 736	25, 792	21, 738	1, 392	2, 660	2	7, 826	8, 110	9, 408
<b>West North Central</b> .....	774, 637	704, 650	69, 988	63, 542	1, 735	4, 454	256	26, 730	31, 168	23, 711
Minnesota.....	110, 249	77, 851	32, 398	31, 272	72	1, 030	25	4, 692	10, 694	5, 803
Iowa.....	103, 634	91, 823	11, 811	10, 797	-----	981	33	992	2, 900	3, 699
Missouri.....	110, 547	98, 083	11, 739	8, 622	1, 396	1, 700	21	4, 015	2, 012	1, 080
North Dakota.....	106, 794	104, 428	2, 366	2, 356	-----	10	-----	3, 836	2, 093	1, 152
South Dakota.....	120, 265	116, 178	4, 087	4, 083	-----	3	-----	7, 870	5, 967	6, 113
Nebraska.....	93, 902	89, 924	3, 979	3, 824	6	126	22	2, 855	4, 652	3, 416
Kansas.....	129, 246	125, 638	3, 608	2, 588	261	604	155	2, 470	2, 850	2, 448
<b>South Atlantic</b> .....	366, 544	277, 003	89, 541	64, 232	15, 048	9, 147	1, 114	8, 852	13, 122	11, 998
Delaware.....	3, 796	2, 869	927	102	209	609	7	85	97	52
Maryland.....	14, 711	9, 404	5, 307	2, 174	2, 009	1, 123	2	365	346	366
Virginia.....	57, 535	46, 343	11, 192	7, 113	3, 355	724	-----	972	1, 102	950
West Virginia.....	34, 799	31, 086	3, 713	1, 247	1, 377	892	197	881	1, 131	1, 168
North Carolina.....	71, 530	43, 719	27, 811	23, 556	1, 070	3, 102	82	2, 627	3, 428	2, 629
South Carolina.....	56, 128	42, 287	13, 841	13, 278	56	504	3	1, 233	1, 917	1, 318
Georgia.....	98, 402	85, 447	13, 015	11, 560	620	832	3	966	2, 067	2, 549
Florida.....	29, 583	15, 848	13, 735	5, 202	6, 352	1, 361	820	1, 722	3, 046	2, 966
<b>East South Central</b> .....	248, 232	187, 301	58, 930	41, 883	15, 351	1, 641	57	4, 083	7, 788	6, 409
Kentucky.....	61, 261	45, 642	15, 618	5, 871	9, 444	277	26	1, 108	1, 036	1, 703
Tennessee.....	64, 490	51, 969	12, 521	6, 568	5, 378	575	1	981	1, 497	2, 143
Alabama.....	63, 706	45, 502	18, 204	17, 480	385	334	5	570	2, 990	1, 159
Mississippi.....	56, 775	44, 188	12, 587	11, 964	144	455	25	1, 364	2, 265	1, 404
<b>West South Central</b> .....	419, 856	377, 669	42, 187	36, 176	3, 166	2, 710	133	4, 268	35, 089	6, 320
Arkansas.....	74, 545	68, 276	6, 269	5, 401	353	515	-----	1, 186	4, 172	1, 155
Louisiana.....	33, 120	23, 619	9, 501	9, 349	44	93	15	509	2, 399	1, 914
Oklahoma.....	123, 627	120, 327	3, 300	2, 292	44	927	36	522	6, 700	1, 233
Texas.....	188, 564	165, 447	23, 117	19, 134	2, 725	1, 175	82	2, 050	11, 818	2, 018
<b>Mountain</b> .....	334, 795	306, 223	28, 573	26, 789	199	1, 586	-----	6, 279	9, 735	4, 799
Montana.....	60, 881	64, 083	2, 799	2, 752	10	37	-----	896	4, 451	281
Idaho.....	37, 349	29, 409	7, 940	7, 619	87	234	-----	1, 550	1, 125	1, 598
Wyoming.....	45, 328	43, 967	1, 361	1, 322	-----	39	-----	456	766	464
Colorado.....	68, 279	61, 897	6, 382	6, 102	-----	281	-----	1, 824	1, 211	765
New Mexico.....	48, 217	46, 073	2, 144	2, 071	-----	73	-----	350	570	864
Arizona.....	21, 666	18, 516	3, 150	2, 581	48	521	-----	383	353	236
Utah.....	23, 416	20, 415	3, 001	2, 624	42	335	-----	281	885	372
Nevada.....	23, 659	21, 863	1, 796	1, 718	12	66	-----	539	374	219
<b>Pacific</b> .....	183, 649	131, 515	52, 135	37, 407	8, 461	8, 208	56	4, 203	4, 633	9, 531
Washington.....	46, 835	30, 180	16, 655	13, 323	1, 729	1, 546	56	1, 132	1, 358	3, 367
Oregon.....	51, 658	39, 844	11, 815	9, 334	1, 066	1, 414	-----	1, 120	1, 846	475
California.....	85, 156	61, 491	23, 665	14, 750	3, 666	5, 248	-----	1, 950	1, 429	5, 689

<sup>1</sup> Includes 16,076 miles of earth road partially graded

<sup>2</sup> Surfaced mileage includes both new surfacing and reconstructed surfacing.

<sup>3</sup> Less than five-tenths of 1 mile

Source: Bureau of Public Roads, Department of Agriculture.

# No. 403.—ROAD MILEAGE IN STATE HIGHWAY SYSTEMS AS OF DECEMBER 31, 1927

NOTE.—These statistics relate only to highways maintained wholly or in part by State governments, not including those maintained only by county or local governments

Division and State	Total, all types	Earth roads	Surfaced roads				
			Total	Sand-clay, gravel, etc	Macadam	Sheet asphalt and concrete	Block pavements
Continental United States.....	293,353	116,786	176,566	98,675	31,248	43,313	3,330
New England.....	12,747	2,042	10,704	6,405	2,876	1,422	5
Maine.....	1,788	293	1,495	1,176	322	85	—
New Hampshire.....	2,310	239	2,070	1,099	277	95	—
Vermont.....	4,228	982	3,244	3,033	112	100	(1)
Massachusetts <sup>2</sup> .....	1,590	25	1,565	111	996	456	3
Rhode Island.....	867	388	479	23	252	204	—
Connecticut <sup>3</sup> .....	1,966	115	1,851	363	1,007	479	2
Middle Atlantic.....	27,917	7,227	20,690	1,730	8,797	8,468	696
New York.....	13,929	3,725	10,204	126	5,977	3,824	277
New Jersey.....	1,821	162	1,659	310	102	1,103	49
Pennsylvania.....	12,167	3,340	8,827	1,294	2,628	4,535	370
East North Central.....	42,678	8,610	34,068	13,981	5,785	12,643	1,650
Ohio.....	11,000	1,104	9,896	3,438	3,063	1,917	1,478
Indiana.....	4,364	15	4,349	1,530	1,362	1,876	81
Illinois.....	9,890	4,821	5,069	—	5	4,977	37
Michigan.....	7,144	1,036	6,108	3,324	702	2,071	11
Wisconsin.....	10,280	1,634	8,646	5,689	653	2,302	2
West North Central.....	48,784	23,941	24,843	20,206	245	4,141	252
Minnesota.....	6,936	393	6,543	5,610	—	909	25
Iowa.....	7,078	2,636	4,442	3,434	—	975	33
Missouri.....	7,482	3,569	3,913	2,204	94	1,593	21
North Dakota.....	7,185	5,457	1,728	1,718	—	10	—
South Dakota.....	6,015	3,119	2,896	2,892	—	3	—
Nebraska.....	6,166	2,827	3,340	3,227	—	93	20
Kansas.....	7,922	5,940	1,982	1,121	151	558	153
South Atlantic.....	37,807	10,621	26,985	13,145	6,121	7,192	528
Delaware.....	620	—	620	23	28	573	6
Maryland <sup>4</sup> .....	2,519	—	2,519	384	1,106	1,028	2
Virginia.....	5,245	1,089	4,156	1,812	1,745	599	—
West Virginia.....	3,820	1,610	2,210	646	789	629	146
North Carolina <sup>3</sup> .....	7,063	857	6,206	2,876	560	2,732	57
South Carolina.....	5,592	1,069	4,522	4,027	49	446	—
Georgia.....	6,380	2,875	3,505	2,580	319	606	1
Florida.....	6,339	3,121	3,218	797	1,525	580	316
East South Central.....	25,322	10,574	14,748	9,117	4,326	1,261	46
Kentucky <sup>4</sup> .....	9,647	5,121	4,526	1,746	2,504	250	26
Tennessee <sup>4</sup> .....	5,033	1,324	3,709	1,534	1,678	498	—
Alabama <sup>4</sup> .....	3,919	1,635	2,284	2,087	82	215	(1)
Mississippi.....	6,723	2,584	4,129	3,750	62	298	20
West South Central.....	41,355	20,599	20,756	15,679	2,569	2,373	133
Arkansas.....	8,506	4,080	4,426	3,617	300	509	—
Louisiana.....	7,979	2,754	5,225	5,103	20	87	15
Oklahoma.....	6,142	4,308	1,834	949	31	817	36
Texas.....	18,728	9,457	9,271	6,010	2,218	960	82
Mountain.....	42,678	28,875	14,003	12,773	90	1,189	—
Montana.....	7,957	6,893	1,075	1,032	6	37	—
Idaho.....	4,219	2,060	2,159	1,955	16	188	—
Wyoming.....	3,123	2,090	1,033	994	—	39	—
Colorado.....	9,098	5,326	3,770	3,495	—	275	—
New Mexico.....	9,293	7,460	1,793	1,720	—	73	—
Arizona.....	2,041	575	1,466	1,252	23	191	—
Utah.....	3,436	2,048	1,388	1,085	33	279	—
Nevada.....	3,582	2,233	1,319	1,240	12	66	—
Pacific.....	14,366	4,498	9,768	5,639	439	3,675	14
Washington.....	3,300	630	2,670	1,982	31	642	14
Oregon.....	4,598	984	3,610	2,506	8	866	—
California.....	6,578	2,884	3,699	1,151	400	2,137	—

<sup>1</sup> Less than five-tenths of 1 mile

<sup>2</sup> Mileage as of Nov 30, 1927

<sup>3</sup> Mileage as of June 30, 1927

<sup>4</sup> Mileage as of Sept 30, 1927.

Source Bureau of Public Roads, Department of Agriculture.

# No. 404.—CONSTRUCTION OF ROADS IN STATE HIGHWAY SYSTEMS DURING 1926 AND 1927

NOTE—Highways under control of State highway departments only

Division and State	Mileage built during 1927								Mileage built during 1926	
	Total, all types	Earth, im- proved, graded, and drained	Surfaced roads						Total, all types	Sur- faced roads
			Total	New	Recon- struct- ed	Sand- clay and gravel	Mac- adam	Paved		
Continental United States	26,722	7,151	19,572	16,208	3,364	11,132	2,812	5,628	27,387	20,327
New England	626	1	625	555	71	290	177	158	814	796
Maine	85	—	85	69	16	65	6	14	135	135
New Hampshire	152	1	151	130	22	113	27	11	186	169
Vermont	156	—	156	156	—	106	16	34	139	139
Massachusetts <sup>1</sup>	73	—	73	56	17	—	48	25	103	103
Rhode Island	40	—	40	40	—	(2)	23	17	50	50
Connecticut <sup>2</sup>	120	—	120	104	16	6	57	57	201	200
Middle Atlantic	1,594	36	1,458	1,408	81	91	263	1,133	1,680	1,367
New York	725	28	697	649	48	28	66	602	581	566
New Jersey	119	8	111	111	(3)	1	2	108	54	50
Pennsylvania	680	—	680	648	33	62	195	423	1,045	751
East North Central	4,121	231	3,890	2,099	1,791	1,685	795	1,409	4,645	4,468
Ohio	1,063	56	1,007	278	729	348	463	196	2,481	2,411
Indiana	538	25	513	313	199	118	166	228	386	377
Illinois	612	90	521	493	29	—	—	521	408	362
Michigan	336	23	313	301	12	70	3	240	354	354
Wisconsin	1,572	37	1,536	714	822	1,149	163	224	1,016	962
West North Central	7,759	2,736	5,022	4,574	446	4,285	46	692	8,291	4,956
Minnesota	1,106	349	757	594	163	643	—	114	1,728	1,412
Iowa	1,211	214	997	997	—	637	—	360	994	499
Missouri	537	—	537	527	10	340	—	157	1,167	823
North Dakota	1,072	585	487	413	73	487	—	—	977	539
South Dakota	852	388	464	464	—	464	—	—	473	445
Nebraska	1,630	493	1,136	935	202	1,128	—	9	1,476	834
Kansas	1,351	707	644	644	—	546	46	52	1,476	404
South Atlantic	4,774	1,028	3,745	3,463	281	1,601	833	1,311	3,546	3,014
Delaware	89	—	89	89	—	—	9	30	85	85
Maryland <sup>4</sup>	103	—	103	101	2	25	14	61	148	148
Virginia	235	13	221	221	—	40	97	84	187	166
West Virginia	735	240	495	485	10	315	107	73	494	494
North Carolina	1,109	314	795	795	—	204	106	485	1,255	859
South Carolina	613	58	555	528	27	445	11	100	632	584
Georgia	927	152	775	700	74	343	131	300	387	323
Florida	1,013	251	762	594	168	229	358	175	358	350
East South Central	2,166	776	1,390	1,062	327	711	436	242	2,094	1,432
Kentucky <sup>5</sup>	1,079	426	654	437	217	263	328	63	451	214
Tennessee	389	133	255	227	28	41	108	106	473	292
Alabama <sup>7</sup>	441	138	303	266	36	281	(3)	21	496	467
Mississippi	257	79	178	132	46	126	—	52	584	459
West South Central	3,070	1,475	1,595	1,591	3	913	189	493	2,946	1,756
Arkansas	940	660	280	280	—	280	—	30	947	431
Louisiana	612	45	564	560	3	518	—	45	594	594
Oklahoma	555	387	168	168	—	—	—	135	436	236
Texas	963	390	573	573	—	102	189	283	969	497
Mountain	1,952	690	1,263	1,014	249	1,152	63	48	2,160	1,349
Montana	136	19	118	92	25	116	—	1	160	155
Idaho	467	28	429	248	181	407	16	6	373	269
Wyoming	208	93	115	105	10	114	—	1	241	137
Colorado	142	54	88	88	—	59	—	29	407	295
New Mexico	656	479	177	177	(2)	176	—	1	482	74
Arizona	66	17	49	36	13	23	14	2	117	79
Utah	169	—	169	150	20	133	33	4	180	150
Nevada	118	—	118	118	—	114	—	4	200	190
Pacific	732	176	556	442	113	404	12	140	1,302	1,190
Washington	212	98	114	114	—	63	—	51	127	96
Oregon	287	78	209	137	72	205	—	4	910	829
California	233	—	233	191	41	136	12	85	285	265

<sup>1</sup> Data for Jan. 1 to Nov. 30, 1926, and year ended Nov. 30, 1927.<sup>2</sup> Less than five-tenths of 1 mile.<sup>3</sup> Data for years ended June 30.<sup>4</sup> Data for years ended Sept. 30.<sup>5</sup> Data for Jan. 1 to June 30, 1927.<sup>6</sup> Data for Jan. 1 to June 30, 1926, and year ended June 30, 1927.<sup>7</sup> Data for Jan. 1 to Sept. 30, 1926, and year ended Sept. 30, 1927.

Source: Bureau of Public Roads, Department of Agriculture.

# No. 405.—EXPENDITURES FOR RURAL HIGHWAYS BY OR UNDER SUPERVISION OF STATE HIGHWAY DEPARTMENTS, INCLUDING FEDERAL AID

NOTE.—Figures include expenditures, whether from current revenues or the proceeds of loans, for construction, maintenance, and interest and principal payments on highway bonds.

Division and State	Year in which first State aid law passed	1904	1914	1919	1921	1923	1924	1925	1926	1927
		Thousands of dollars								
Continental U. S.-----		2, 550	24, 221	106, 861	413, 242	447, 362	805, 665	649, 125	621, 744	699, 875
New England-----		1, 090	2, 987	11, 046	26, 758	31, 503	38, 339	39, 289	45, 178	51, 735
Maine-----	1901	45	467	1, 739	7, 372	6, 149	6, 960	7, 105	10, 279	8, 684
New Hampshire-----	1903	44	492	1, 361	2, 360	2, 993	3, 843	4, 027	3, 017	3, 565
Vermont-----	1898	127	458	901	3, 851	2, 850	2, 832	3, 615	3, 713	4, 080
Massachusetts-----	1892	576	243	3, 620	7, 864	10, 514	13, 240	12, 381	13, 704	18, 380
Rhode Island-----	1902	79	1, 132	2, 213	2, 052	2, 770	3, 046	3, 871	4, 242	4, 242
Connecticut-----	1895	219	1, 307	2, 293	5, 998	6, 915	8, 690	8, 612	10, 504	12, 784
Middle Atlantic-----		1, 434	11, 827	36, 754	101, 477	73, 316	112, 079	135, 603	117, 072	136, 625
New York-----	1898	1, 056	8, 544	13, 714	36, 857	38, 128	42, 258	40, 369	41, 781	58, 798
New Jersey-----	1891	250	1, 307	6, 320	15, 608	12, 032	21, 488	23, 939	24, 378	27, 763
Pennsylvania-----	1903	128	1, 977	16, 719	49, 012	23, 156	48, 333	62, 294	50, 913	50, 064
East North Central-----			4, 383	16, 717	68, 512	76, 834	116, 002	118, 903	104, 321	106, 712
Ohio-----	1904		1, 855	4, 604	15, 547	12, 876	27, 080	24, 086	29, 496	18, 214
Indiana-----	1917			401	8, 110	9, 276	14, 920	14, 518	12, 429	14, 798
Illinois-----	1905		388	4, 404	15, 693	30, 994	40, 851	36, 376	24, 267	30, 270
Michigan-----	1905		657	4, 246	16, 744	15, 586	24, 270	36, 139	25, 998	25, 883
Wisconsin-----	1911		1, 482	3, 063	12, 417	8, 102	8, 882	7, 785	12, 131	17, 547
West North Central-----			1, 670	5, 686	47, 144	64, 700	81, 663	84, 876	88, 723	101, 852
Minnesota-----	1905		1, 310	2, 691	7, 480	10, 853	16, 762	17, 963	17, 979	17, 837
Iowa-----	1904		74	614	13, 276	17, 980	17, 911	14, 108	15, 272	24, 077
Missouri-----	1907		277	684	4, 727	19, 589	26, 107	31, 594	30, 841	25, 966
North Dakota-----	1909		233	1, 030	1, 082	21, 844	1, 862	1, 978	4, 567	4, 567
South Dakota-----	1911		319	4, 738	2, 466	5, 596	6, 378	5, 843	4, 862	4, 862
Nebraska-----	1911			1, 098	4, 836	5, 775	6, 804	5, 564	7, 639	8, 004
Kansas-----	1911		9	48	6, 068	6, 955	6, 639	7, 407	9, 171	16, 509
South Atlantic-----		14	916	7, 217	51, 181	79, 792	99, 992	103, 836	113, 651	133, 328
Delaware-----	1903	14	31	1, 147	3, 765	3, 748	3, 658	3, 493	3, 469	3, 480
Maryland-----	1898		357	2, 237	7, 616	7, 762	12, 728	12, 025	10, 598	10, 598
Virginia-----	1906		524	2, 262	7, 114	9, 849	14, 611	14, 072	12, 014	14, 714
West Virginia-----	1909			480	1, 877	15, 665	14, 124	16, 139	17, 492	19, 311
North Carolina-----	1901		5	1, 010	15, 100	28, 148	34, 733	32, 589	37, 216	33, 144
South Carolina-----	1917		80	3, 941	4, 522	5, 887	9, 133	9, 133	9, 640	13, 410
Georgia-----	1908				9, 664	5, 475	7, 301	7, 902	9, 565	15, 114
Florida-----	1915			( <sup>1</sup> )	2, 103	4, 623	6, 949	8, 484	13, 637	23, 857
East South Central-----			188	1, 826	16, 921	19, 688	36, 975	45, 008	38, 845	44, 794
Kentucky-----	1912		18	926	5, 757	6, 427	15, 470	14, 916	9, 820	11, 484
Tennessee-----	1915			794	6, 328	4, 153	8, 405	14, 379	14, 037	16, 003
Alabama-----	1911		170	65	1, 036	5, 117	7, 779	10, 917	10, 290	10, 766
Mississippi-----	1915			40	3, 500	2, 876	5, 321	4, 795	4, 698	6, 481
West South Central-----			276	3, 360	33, 952	40, 029	51, 925	52, 733	60, 205	58, 119
Arkansas-----	1913		115	585	7, 055	11, 924	11, 214	11, 200	9, 563	14, 532
Louisiana-----	1910		161	( <sup>2</sup> )	5, 347	6, 082	8, 843	8, 611	10, 563	10, 753
Oklahoma-----	1911			2, 125	4, 775	5, 731	6, 638	12, 938	10, 420	12, 816
Texas-----	1917			650	16, 775	16, 293	25, 280	19, 985	19, 659	20, 018
Mountain-----			638	8, 870	28, 002	24, 747	30, 151	27, 387	23, 810	27, 318
Montana-----	1913		14	397	3, 640	1, 454	1, 788	1, 267	1, 155	1, 541
Idaho-----	1905		50	850	4, 863	2, 534	2, 585	3, 637	4, 191	3, 847
Wyoming-----	1911			771	3, 701	3, 877	4, 805	3, 973	2, 974	2, 873
Colorado-----	1909		301	1, 775	4, 156	5, 741	6, 491	5, 565	5, 850	5, 282
New Mexico-----	1909		116	1, 839	3, 713	3, 205	4, 609	3, 323	2, 928	5, 039
Arizona-----	1909			1, 451	2, 948	2, 584	3, 071	2, 443	2, 565	2, 608
Utah-----	1909		158	2, 445	3, 391	2, 709	3, 627	4, 124	2, 448	3, 929
Nevada-----	1911			342	1, 590	2, 843	3, 174	3, 056	1, 699	2, 199
Pacific-----		11	1, 354	15, 386	39, 596	37, 854	38, 541	41, 490	39, 938	39, 450
Washington-----	1905		1, 343	2, 895	9, 970	7, 169	7, 671	7, 846	8, 825	8, 628
Oregon-----	1913		11	5, 923	18, 246	10, 786	9, 360	15, 553	10, 018	10, 263
California-----	1895		11	6, 568	11, 380	19, 899	21, 509	18, 091	21, 095	20, 559

<sup>1</sup> Excludes State bridge fund receipts and disbursements

<sup>2</sup> Data are for 1920

<sup>3</sup> Data not available

<sup>4</sup> Excludes expenditures on forest-aid roads, also on market roads for Oregon.

Source. Bureau of Public Roads, Department of Agriculture

**No. 406.—EXPENDITURES FOR RURAL HIGHWAYS: CONSOLIDATED DATA FOR ALL STATES, COUNTIES, TOWNSHIPS, AND DISTRICTS (APPROXIMATE)**

NOTE.—All figures in thousands of dollars. For the items entering into the totals see Table 408

Division and State	1904	1914	1919	1921	1923	1924	1925	1926	1927
<b>Continental U. S.</b> .....	59,527	240,264	389,456	1,036,588	996,781	1,181,521	1,288,940	1,300,546	1,448,121
<b>New England</b> .....	7,356	15,438	25,462	45,361	40,381	48,353	63,080	69,183	76,440
Maine.....	1,472	2,642	4,525	8,702	8,684	10,460	11,003	12,923	11,384
New Hampshire.....	873	1,590	2,582	3,699	4,288	5,311	5,589	4,968	5,772
Vermont.....	567	1,024	2,140	2,150	3,000	3,502	4,693	4,706	5,080
Massachusetts.....	2,871	6,092	10,225	19,536	12,161	14,740	26,881	28,144	33,262
Rhode Island.....	377	445	1,847	2,828	2,878	3,082	3,894	4,883	5,196
Connecticut.....	1,195	3,641	3,844	8,446	9,341	11,259	11,021	13,559	15,746
<b>Middle Atlantic</b> .....	12,100	40,865	67,990	160,471	130,125	178,615	247,348	226,098	258,528
New York.....	3,938	23,232	24,448	57,025	52,422	66,658	89,383	69,543	98,798
New Jersey.....	3,275	7,208	15,320	28,096	20,116	26,624	55,470	50,716	54,351
Pennsylvania.....	4,887	10,425	28,222	75,350	57,587	83,333	102,494	105,839	104,779
<b>East North Central</b> .....	15,800	56,445	83,621	267,968	254,123	284,278	260,899	281,642	302,045
Ohio.....	4,776	14,334	18,213	76,580	62,876	76,035	73,626	83,043	80,580
Indiana.....	3,438	14,234	18,702	54,502	54,525	62,502	49,991	49,810	52,023
Illinois.....	3,844	8,735	16,524	39,619	55,451	51,431	45,154	50,453	57,931
Michigan.....	1,817	9,262	10,525	55,573	37,691	52,614	60,847	62,517	66,676
Wisconsin.....	1,924	9,880	13,657	41,714	43,580	41,696	31,281	35,819	44,935
<b>West North Central</b> .....	7,435	33,120	64,779	148,866	152,413	184,108	176,603	171,548	197,794
Minnesota.....	1,607	6,459	13,223	38,780	35,327	42,984	44,352	37,815	41,283
Iowa.....	2,344	10,188	16,773	39,325	34,838	36,946	33,161	34,521	48,351
Missouri.....	1,571	5,513	7,724	16,128	31,177	42,717	41,224	41,058	37,172
North Dakota.....	456	2,402	6,236	7,247	5,751	6,080	6,210	6,340	8,797
South Dakota.....	269	1,218	4,244	14,189	10,105	13,347	13,056	13,319	11,085
Nebraska.....	495	1,796	5,551	10,528	14,246	19,033	16,041	15,688	16,909
Kansas.....	693	5,544	11,027	22,670	20,969	23,001	22,560	22,807	34,197
<b>South Atlantic</b> .....	4,530	24,429	35,458	106,657	151,858	180,087	192,389	239,594	268,194
Delaware.....	91	512	1,994	6,036	5,432	4,892	6,161	5,077	5,148
Maryland.....	873	6,001	6,965	10,298	12,945	16,356	15,553	14,213	14,565
Virginia.....	688	3,225	5,140	15,485	18,849	24,287	22,578	22,320	25,368
West Virginia.....	588	2,484	5,290	10,060	25,665	27,084	29,098	32,030	32,681
North Carolina.....	624	5,215	6,717	29,324	43,148	50,783	46,799	59,618	58,865
South Carolina.....	334	1,024	2,435	10,049	9,437	12,108	19,652	16,855	19,767
Georgia.....	895	3,688	6,917	15,817	16,006	25,675	20,940	20,576	29,450
Florida.....	437	2,280	(1)	9,588	19,876	18,903	31,608	58,995	77,850
<b>East South Central</b> .....	2,608	12,755	12,974	51,236	58,860	72,383	97,015	81,038	91,418
Kentucky.....	1,161	2,475	3,803	12,623	15,647	24,397	22,118	16,284	18,383
Tennessee.....	729	2,371	4,468	12,697	14,565	15,167	31,124	23,354	27,152
Alabama.....	378	3,949	1,812	5,608	14,503	15,764	18,860	19,006	21,272
Mississippi.....	340	3,960	2,890	20,308	14,147	17,056	24,912	22,392	24,611
<b>West South Central</b> .....	4,018	15,333	32,524	103,820	78,896	108,791	113,210	107,241	119,720
Arkansas.....	682	1,523	9,381	21,211	15,484	20,474	22,360	18,438	23,432
Louisiana.....	345	1,778	(1)	14,022	15,142	18,077	18,557	19,910	22,559
Oklahoma.....	417	2,113	9,052	14,680	14,196	18,849	28,308	24,568	25,541
Texas.....	2,544	9,920	14,092	53,907	34,075	51,390	43,985	44,325	48,188
<b>Mountain</b> .....	1,528	9,454	25,143	58,153	44,220	45,392	46,090	42,518	46,388
Montana.....	309	2,888	2,583	10,383	4,892	3,393	4,520	5,961	6,306
Idaho.....	202	1,371	4,300	11,807	5,998	5,585	7,597	7,959	8,118
Wyoming.....	74	670	1,915	4,725	4,751	5,785	4,650	3,872	3,609
Colorado.....	635	1,938	4,295	9,049	10,675	11,639	10,520	10,829	10,272
New Mexico.....	35	556	1,584	4,259	3,659	5,173	3,769	3,361	5,581
Arizona.....	68	983	4,018	10,643	7,192	4,943	4,048	4,359	4,218
Utah.....	158	803	5,545	5,175	4,209	5,127	7,274	3,793	5,206
Nevada.....	47	245	902	2,111	2,844	3,647	3,712	2,354	2,878
<b>Pacific</b> .....	4,152	32,427	41,505	94,031	85,903	81,514	92,306	91,664	92,591
Washington.....	1,345	7,945	11,616	24,239	17,239	16,671	15,710	18,821	18,322
Oregon.....	650	5,310	10,391	27,969	19,981	15,360	28,928	23,078	22,973
California.....	2,157	19,172	19,497	41,823	48,674	49,483	47,068	49,785	51,296

<sup>1</sup> Data not available

Source Bureau of Public Roads, Department of Agriculture.

# No. 407.—FUNDS AVAILABLE FOR RURAL ROAD PURPOSES: CONSOLIDATED DATA FOR ALL STATES, COUNTIES, TOWNSHIPS, AND DISTRICTS, 1927

NOTE.—All figures except percentages in thousands of dollars. Funds are those available for the purposes indicated in Table 408

Division and State	Total	Proceeds of bonds		Federal aid post-road funds <sup>1</sup>		Motor vehicle fees and gasoline taxes		Other taxes and appropriations		All other sources <sup>2</sup>	
		Amount	Per cent	Amount	Per cent	Amount	Per cent	Amount	Per cent	Amount	Per cent
Continental U S.	1,941,921	272,060	14.0	80,480	4.1	516,774	26.6	527,477	27.2	544,451	28.0
<b>New England</b> .....	95,647	5,368	5.6	3,716	3.9	35,347	37.0	24,960	26.1	26,218	27.4
Maine.....	12,580	546	4.3	632	5.0	4,576	36.3	3,680	29.2	3,154	25.1
New Hampshire.....	8,671	-----	-----	454	5.2	3,098	35.7	3,720	42.9	1,399	16.1
Vermont.....	5,686	-----	-----	702	12.3	2,665	46.9	1,363	24.0	957	16.8
Massachusetts.....	34,258	1,290	3.8	884	2.6	12,458	36.4	9,232	26.9	10,394	30.3
Rhode Island.....	8,564	3,550	41.5	430	5.0	2,826	33.0	1,019	11.9	739	8.6
Connecticut.....	25,879	-----	-----	614	2.4	9,724	37.6	5,966	23.1	9,575	37.0
<b>Middle Atlantic</b> .....	366,966	39,729	10.8	8,288	2.3	81,234	22.1	100,712	27.4	137,008	37.3
New York.....	147,675	3,675	2.5	3,647	2.5	22,743	15.4	49,737	33.7	67,872	46.0
New Jersey.....	67,471	25,222	37.4	1,072	1.6	16,430	24.4	14,354	21.3	10,394	15.4
Pennsylvania.....	151,820	10,832	7.1	3,593	2.4	42,061	27.7	36,621	24.1	58,737	38.7
<b>East North Central</b> .....	391,604	54,583	13.9	12,463	3.2	110,985	28.3	143,224	36.6	70,570	18.0
Ohio.....	120,250	17,680	14.7	2,368	2.0	34,751	28.9	44,265	36.8	21,186	17.6
Indiana.....	65,253	10,824	16.6	2,076	3.2	13,457	20.6	25,937	39.7	12,959	19.9
Illinois.....	65,953	13,342	20.2	2,998	4.5	19,542	29.6	27,520	41.7	2,551	3.9
Michigan.....	84,780	7,424	8.8	2,664	3.1	28,043	33.1	26,481	31.2	20,169	23.8
Wisconsin.....	55,568	5,313	9.6	2,357	4.2	15,172	27.3	19,021	34.2	13,706	24.7
<b>West North Central</b> .....	243,376	10,615	4.4	17,256	7.1	74,804	30.7	72,403	29.7	68,301	28.1
Minnesota.....	50,192	1,020	2.0	2,056	4.1	15,258	30.4	20,347	40.5	11,511	22.9
Iowa.....	56,677	1,274	2.2	2,573	4.5	15,767	27.8	13,652	24.1	23,412	41.3
Missouri.....	43,515	5,613	12.9	3,468	8.0	14,546	33.4	9,947	22.9	9,941	22.8
North Dakota.....	11,342	-----	-----	2,550	22.5	2,554	22.5	4,000	35.3	2,238	19.7
South Dakota.....	12,960	-----	-----	718	5.5	4,554	35.1	4,532	35.0	3,156	24.4
Nebraska.....	20,006	-----	-----	2,425	12.1	7,285	36.4	6,455	32.3	3,841	19.2
Kansas.....	48,684	2,708	5.6	3,466	7.1	14,840	30.5	13,469	27.7	14,202	29.2
<b>South Atlantic</b> .....	378,662	100,444	26.5	11,633	3.1	72,418	19.1	65,942	17.4	128,223	33.9
Delaware.....	5,905	1,063	18.3	511	8.7	1,479	25.0	1,311	22.2	1,521	25.8
Maryland.....	17,440	3,173	18.2	720	4.1	3,898	22.3	6,199	35.5	3,454	19.8
Virginia.....	30,001	1,558	5.2	1,869	6.2	10,916	36.4	6,092	20.2	9,593	32.0
West Virginia.....	40,705	12,000	29.5	1,262	3.1	7,409	18.2	9,680	23.8	10,355	25.4
North Carolina.....	80,325	29,642	33.2	1,713	1.9	14,044	15.7	13,586	15.2	30,369	34.0
South Carolina.....	43,271	13,658	31.6	1,124	2.6	6,155	16.3	2,933	6.8	18,501	42.8
Georgia.....	34,536	1,566	4.5	2,746	8.0	10,672	30.9	11,982	34.7	7,571	21.9
Florida.....	117,479	37,764	32.1	1,688	1.4	16,980	14.5	14,189	12.1	46,857	39.9
<b>East South Central</b> .....	131,708	25,628	19.5	6,428	4.9	31,562	24.0	32,619	24.8	35,472	26.9
Kentucky.....	22,432	3,462	15.4	1,420	6.3	9,952	44.4	6,979	31.1	620	2.8
Tennessee.....	39,598	7,841	19.8	1,812	4.6	7,377	18.6	7,284	18.4	15,284	38.6
Alabama.....	25,045	5,213	20.8	1,251	5.0	7,507	30.0	5,443	21.8	5,626	22.5
Mississippi.....	44,633	9,112	20.4	1,945	4.4	6,726	15.1	12,908	28.9	13,942	31.2
<b>West South Central</b> .....	159,497	28,091	17.6	7,750	4.9	50,223	31.5	36,058	22.6	27,378	23.4
Arkansas.....	31,850	13,236	41.6	505	1.6	8,001	25.1	2,400	7.5	7,708	24.2
Louisiana.....	29,838	2,855	9.6	1,073	3.6	7,108	23.8	8,408	28.2	10,395	34.8
Oklahoma.....	30,576	1,500	4.9	1,207	3.9	12,337	40.3	7,950	26.0	7,683	24.8
Texas.....	67,233	10,500	15.6	4,965	7.4	22,777	33.9	17,300	25.7	11,692	17.4
<b>Mountain</b> .....	55,932	1,768	3.2	8,668	15.5	16,131	28.8	15,893	28.4	13,453	24.1
Montana.....	7,625	120	1.6	895	11.7	1,781	23.4	2,970	39.0	1,860	24.4
Idaho.....	11,465	66	.6	1,067	9.3	3,085	26.9	3,420	29.8	5,827	51.4
Wyoming.....	3,994	-----	-----	930	23.3	1,292	32.3	6,080	17.0	1,062	27.3
Colorado.....	12,512	-----	-----	1,148	9.2	4,137	33.1	4,124	33.0	3,103	24.8
New Mexico.....	5,819	1,447	24.9	1,782	30.6	1,551	26.7	841	14.5	197	3.4
Arizona.....	4,221	-----	-----	721	17.1	1,644	38.9	1,631	38.6	225	5.3
Utah.....	6,552	-----	-----	1,149	17.5	1,936	29.5	1,441	22.0	2,026	30.9
Nevada.....	3,744	135	3.6	996	26.6	705	18.8	786	21.0	1,123	30.0
<b>Pacific</b> .....	117,628	5,818	4.9	4,240	3.6	44,092	37.5	35,646	30.3	27,331	23.7
Washington.....	19,078	95	.5	699	3.7	8,594	45.0	7,120	37.3	2,570	13.5
Oregon.....	25,717	4,000	15.6	1,112	4.3	10,138	39.4	5,300	20.6	5,167	20.1
California.....	72,833	1,723	2.4	2,429	3.3	25,360	34.8	23,226	31.9	20,094	27.6

<sup>1</sup> For road and bridge purposes under supervision of State highway departments only.

<sup>2</sup> Includes balance from previous year, miscellaneous income, and funds transferred.

Source Bureau of Public Roads, Department of Agriculture.



**NO. 408.—DISTRIBUTION OF EXPENDITURES FOR ALL RURAL ROAD PURPOSES, 1927: ALL STATES, COUNTIES, TOWNSHIPS, AND DISTRICTS**

[All figures except percentages in thousands of dollars]

Division and State	Total	New and re-constructed roads and bridges		Maintenance roads and bridges		Principal and interest on highway bonds		Equipment and miscellaneous <sup>1</sup>	
		Amount	Per cent	Amount	Per cent	Amount	Per cent	Amount	Per cent
Continental U S.....	1,448,121	689,219	47 6	376,754	26 0	244,886	16 9	137,263	9 5
<b>New England.....</b>	<b>76,440</b>	<b>38,835</b>	<b>50 8</b>	<b>27,242</b>	<b>35 6</b>	<b>2,968</b>	<b>3 9</b>	<b>7,393</b>	<b>9 7</b>
Maine.....	11,384	5,484	48 2	3,670	32 2	1,136	10 0	1,094	9 6
New Hampshire.....	5,772	1,625	28 2	3,351	58 1	-----	-----	796	13 8
Vermont.....	5,080	2,821	55 5	1,919	37 8	-----	-----	340	6 7
Massachusetts.....	33,262	18,738	56 3	9,245	27 8	1,420	4 3	3,558	11 6
Rhode Island.....	5,196	1,646	31 7	2,395	46 1	412	7 9	712	14 3
Connecticut.....	15,746	8,521	54 1	6,662	42 3	-----	-----	563	3 6
<b>Middle Atlantic.....</b>	<b>258,528</b>	<b>130,040</b>	<b>50 3</b>	<b>45,585</b>	<b>17 6</b>	<b>46,088</b>	<b>17 8</b>	<b>36,837</b>	<b>14 2</b>
New York.....	98,798	66,305	67 1	11,069	11 2	8,820	8 9	12,605	12 8
New Jersey.....	54,951	24,112	43 9	6,678	12 2	15,856	28 9	8,306	15 1
Pennsylvania.....	104,779	39,623	37 8	27,838	26 6	21,392	20 4	15,926	15 2
<b>East North Central.....</b>	<b>302,045</b>	<b>127,065</b>	<b>42 1</b>	<b>91,332</b>	<b>30 2</b>	<b>61,722</b>	<b>20 4</b>	<b>21,694</b>	<b>7 3</b>
Ohio.....	80,580	25,832	32 1	27,395	34 0	24,332	30 3	2,971	3 7
Indiana.....	52,023	20,407	39 2	13,664	26 3	15,236	29 3	2,715	5 2
Illinois.....	57,931	27,219	47 0	17,875	30 9	8,492	14 7	4,344	7 5
Michigan.....	66,576	32,534	48 9	18,103	27 2	11,984	18 0	3,955	5 9
Wisconsin.....	44,935	21,073	46 9	14,295	31 8	1,628	3 6	7,939	17 7
<b>West North Central.....</b>	<b>197,794</b>	<b>114,288</b>	<b>57 8</b>	<b>49,515</b>	<b>25 0</b>	<b>16,265</b>	<b>8 2</b>	<b>17,728</b>	<b>9 0</b>
Minnesota.....	41,283	25,242	61 1	8,950	21 7	3,815	9 2	3,277	7 9
Iowa.....	48,351	24,227	50 1	15,373	31 8	2,115	4 4	6,637	13 7
Missouri.....	37,172	18,934	50 9	8,599	23 1	6,782	18 2	2,857	7 7
North Dakota.....	8,797	7,077	80 4	925	10 5	-----	-----	795	9 0
South Dakota.....	11,085	5,700	51 4	3,942	35 6	755	6 8	688	6 2
Nebraska.....	16,909	9,747	57 6	5,230	30 9	289	1 7	1,613	9 7
Kansas.....	34,197	23,361	68 3	6,496	19 0	2,500	7 3	1,831	5 4
<b>South Atlantic.....</b>	<b>263,194</b>	<b>141,169</b>	<b>53 6</b>	<b>51,669</b>	<b>19 6</b>	<b>45,523</b>	<b>17 3</b>	<b>24,835</b>	<b>9 4</b>
Delaware.....	5,148	2,403	46 7	622	12 1	1,435	27 9	689	13 4
Maryland.....	14,565	4,935	33 9	5,822	40 0	3,636	25 0	173	1 2
Virginia.....	25,368	11,499	45 3	9,644	38 0	2,866	11 3	1,359	5 4
West Virginia.....	32,681	19,155	58 6	5,172	15 8	7,322	22 4	1,022	3 1
North Carolina.....	58,885	28,395	39 7	7,919	13 5	16,875	28 7	10,676	18 1
South Carolina.....	19,767	11,072	56 0	3,964	20 1	2,276	11 5	2,455	12 4
Georgia.....	29,450	17,001	57 7	7,959	27 0	2,323	7 9	2,167	7 4
Florida.....	77,350	51,699	66 8	10,567	13 7	8,790	11 4	6,294	8 1
<b>East South Central.....</b>	<b>91,418</b>	<b>35,151</b>	<b>38 5</b>	<b>29,973</b>	<b>32 8</b>	<b>17,818</b>	<b>19 5</b>	<b>8,475</b>	<b>9 3</b>
Kentucky.....	18,383	8,487	46 2	5,373	29 2	1,896	10 3	2,627	14 3
Tennessee.....	27,152	12,117	44 6	7,277	26 8	4,591	16 9	3,167	11 7
Alabama.....	21,272	8,227	38 7	6,842	32 2	4,434	20 8	1,768	8 3
Mississippi.....	24,611	6,220	25 7	10,481	42 6	6,897	28 0	913	3 7
<b>West South Central.....</b>	<b>119,720</b>	<b>44,749</b>	<b>37 4</b>	<b>36,481</b>	<b>30 5</b>	<b>30,604</b>	<b>25 6</b>	<b>7,378</b>	<b>6 6</b>
Arkansas.....	23,432	5,162	22 0	4,092	17 5	11,590	49 5	2,588	11 0
Louisiana.....	22,559	9,777	42 5	5,601	24 8	5,404	24 0	1,976	8 8
Oklahoma.....	25,541	12,420	48 6	9,393	36 8	2,050	8 0	1,679	6 6
Texas.....	48,188	17,590	36 5	17,405	36 1	11,560	24 0	1,633	3 4
<b>Mountain.....</b>	<b>46,388</b>	<b>19,582</b>	<b>42 2</b>	<b>14,916</b>	<b>32 2</b>	<b>6,757</b>	<b>14 6</b>	<b>5,132</b>	<b>11 1</b>
Montana.....	5,306	2,034	32 3	2,359	37 4	1,290	20 5	622	9 9
Idaho.....	8,318	2,789	33 5	1,938	23 2	2,319	27 9	1,231	15 4
Wyoming.....	3,609	2,059	57 1	1,087	30 1	160	4 4	303	8 4
Colorado.....	10,272	3,992	38 9	4,167	40 6	1,085	10 6	1,028	10 0
New Mexico.....	5,581	3,100	55 5	1,283	23 0	502	9 0	695	12 5
Arizona.....	4,218	1,602	38 0	2,018	47 8	140	3 3	459	10 9
Utah.....	5,206	2,437	46 8	1,404	27 0	962	18 5	402	7 7
Nevada.....	2,878	1,569	54 5	670	23 3	299	10 4	341	11 8
<b>Pacific.....</b>	<b>92,591</b>	<b>38,338</b>	<b>41 4</b>	<b>30,031</b>	<b>32 4</b>	<b>17,158</b>	<b>18 5</b>	<b>7,064</b>	<b>7 6</b>
Washington.....	18,322	9,434	51 5	6,143	33 5	1,594	8 7	1,151	6 3
Oregon.....	22,973	10,368	45 1	5,734	25 0	5,613	24 4	1,258	5 5
California.....	51,296	18,536	36 1	18,154	35 4	9,951	19 4	4,655	9 1

<sup>1</sup> Includes administration and engineering

Source: Bureau of Public Roads, Department of Agriculture.

# No. 409.—HIGHWAY CONSTRUCTION UNDER FEDERAL AID: STATUS AS OF DECEMBER 31, 1928

[Total cost and Federal aid expressed in thousands of dollars]

Division and State	Mileage completed prior to Jan 1, 1929	Projects under construction			Projects approved for construction			Federal aid fund available for new projects
		Total cost	Federal aid	Miles	Total cost	Federal aid	Miles	
<b>Grand total <sup>1</sup></b> -----	<b>78, 075</b>	<b>230, 649</b>	<b>91, 343</b>	<b>9, 216</b>	<b>32, 434</b>	<b>12, 819</b>	<b>1, 598</b>	<b>101, 372</b>
<b>New England</b> -----	<b>1, 975</b>	<b>8, 821</b>	<b>2, 618</b>	<b>161</b>	<b>1, 980</b>	<b>714</b>	<b>36</b>	<b>6, 287</b>
Maine-----	466	2, 246	750	53	192	94	9	1, 453
New Hampshire-----	332	279	109	8	-----	-----	-----	399
Vermont-----	229	965	289	20	-----	-----	-----	410
Massachusetts-----	568	2, 827	897	49	739	191	13	2, 411
Rhode Island-----	160	611	153	9	381	150	10	776
Connecticut-----	220	1, 893	420	22	668	279	4	838
<b>Middle Atlantic</b> -----	<b>4, 473</b>	<b>47, 128</b>	<b>10, 752</b>	<b>708</b>	<b>3, 707</b>	<b>985</b>	<b>63</b>	<b>11, 560</b>
New York-----	2, 034	28, 763	6, 341	422	1, 891	383	26	6, 981
New Jersey-----	443	5, 225	907	61	108	34	2	946
Pennsylvania-----	1, 996	13, 140	3, 504	225	1, 708	568	35	3, 633
<b>East North Central</b> -----	<b>8, 531</b>	<b>52, 302</b>	<b>22, 377</b>	<b>1, 453</b>	<b>7, 386</b>	<b>2, 610</b>	<b>163</b>	<b>13, 968</b>
Ohio-----	1, 960	10, 899	3, 852	238	3, 997	1, 168	65	3, 549
Indiana-----	1, 244	5, 833	2, 786	179	997	433	32	1, 960
Illinois-----	1, 778	20, 268	9, 218	635	1, 539	648	39	3, 113
Michigan-----	1, 441	11, 181	4, 724	272	779	324	21	2, 163
Wisconsin-----	2, 108	4, 121	1, 797	129	74	37	6	3, 181
<b>West North Central</b> -----	<b>22, 084</b>	<b>26, 399</b>	<b>11, 079</b>	<b>2, 262</b>	<b>4, 200</b>	<b>1, 689</b>	<b>458</b>	<b>14, 174</b>
Minnesota-----	4, 090	1, 083	336	107	166	15	(2)	2, 147
Iowa-----	2, 995	2, 525	1, 005	126	563	257	37	2, 075
Missouri-----	2, 280	7, 658	2, 886	216	1, 486	636	61	1, 816
North Dakota-----	3, 678	2, 794	1, 210	514	883	301	204	1, 240
South Dakota-----	3, 234	2, 341	1, 273	405	245	135	21	1, 364
Nebraska-----	3, 462	3, 736	1, 847	448	330	164	36	3, 394
Kansas-----	2, 345	6, 262	2, 522	386	547	181	39	2, 138
<b>South Atlantic</b> -----	<b>9, 038</b>	<b>24, 134</b>	<b>8, 971</b>	<b>1, 008</b>	<b>1, 887</b>	<b>608</b>	<b>84</b>	<b>10, 705</b>
Delaware-----	205	534	256	16	-----	-----	-----	461
Maryland-----	558	1, 742	800	78	-----	-----	-----	664
Virginia-----	1, 313	3, 662	1, 115	108	644	21	22	1, 450
West Virginia-----	692	1, 173	551	49	471	211	21	1, 103
North Carolina-----	1, 666	1, 999	1, 015	98	510	251	22	1, 889
South Carolina-----	1, 717	6, 804	1, 488	247	3	1	1	1, 077
Georgia-----	2, 457	5, 436	2, 513	296	269	124	18	1, 995
Florida-----	430	2, 784	1, 233	116	-----	-----	-----	2, 066
<b>East South Central</b> -----	<b>5, 820</b>	<b>18, 150</b>	<b>8, 351</b>	<b>924</b>	<b>2, 556</b>	<b>1, 184</b>	<b>142</b>	<b>7, 517</b>
Kentucky-----	1, 259	4, 934	2, 215	220	789	325	47	1, 426
Tennessee-----	1, 068	4, 709	2, 103	172	541	246	24	2, 115
Alabama-----	1, 902	3, 246	1, 619	261	936	468	51	2, 519
Mississippi-----	1, 591	5, 261	2, 414	271	290	145	20	1, 457
<b>West South Central</b> -----	<b>10, 738</b>	<b>22, 685</b>	<b>10, 136</b>	<b>1, 050</b>	<b>6, 921</b>	<b>2, 943</b>	<b>398</b>	<b>11, 099</b>
Arkansas-----	1, 796	3, 743	1, 657	109	74	37	11	3, 051
Louisiana-----	1, 281	4, 682	2, 333	193	103	25	(2)	1, 209
Oklahoma-----	1, 704	3, 330	1, 520	176	549	248	24	1, 673
Texas-----	6, 077	10, 930	4, 626	572	6, 195	2, 633	363	5, 166
<b>Mountain</b> -----	<b>9, 834</b>	<b>17, 255</b>	<b>11, 150</b>	<b>1, 288</b>	<b>1, 852</b>	<b>1, 071</b>	<b>177</b>	<b>17, 642</b>
Montana-----	1, 518	3, 240	1, 982	255	716	376	80	5, 515
Idaho-----	1, 077	1, 836	1, 096	139	70	42	4	1, 001
Wyoming-----	1, 611	1, 374	845	160	-----	-----	-----	1, 029
Colorado-----	1, 064	3, 461	1, 863	172	322	181	18	3, 043
New Mexico-----	1, 786	3, 255	2, 130	202	279	177	28	1, 947
Arizona-----	877	1, 461	1, 233	80	160	43	4	3, 717
Utah-----	896	1, 347	885	69	123	91	7	905
Nevada-----	1, 002	1, 281	1, 116	211	182	161	36	1, 085
<b>Pacific</b> -----	<b>3, 486</b>	<b>13, 595</b>	<b>5, 854</b>	<b>359</b>	<b>1, 943</b>	<b>1, 015</b>	<b>77</b>	<b>6, 989</b>
Washington-----	830	3, 896	1, 314	93	83	44	5	1, 538
Oregon-----	1, 132	550	322	32	108	67	(2)	2, 344
California-----	1, 524	9, 149	4, 218	234	1, 762	904	72	3, 107
Hawaii-----	39	176	58	2	-----	-----	-----	1, 432

<sup>1</sup> Includes Hawaii

<sup>2</sup> Less than five-tenths of 1 mile

Source Bureau of Public Roads, Department of Agriculture.

## No. 410.—PRODUCTION AND REGISTRATION OF MOTOR VEHICLES

NOTE.—Figures for earlier years are largely estimates. Beginning with 1921, data include production of plants located in Canada, making motor vehicles of United States design, and cars assembled in foreign countries from American parts. Motorcycles and trailers are not included.

Year	Production <sup>1</sup>						Registration (in thousands)		
	Number (in thousands)			Wholesale value (thousands of dollars)			Total	Passen- ger cars, busses, and taxis	Trucks and road tractors <sup>2</sup>
	Total	Passen- ger cars	Motor trucks	Total	Passen- ger cars	Motor trucks			
1900 <sup>3</sup>	4	4	-----	4,899	4,899	-----	8	-----	-----
1901	7	7	-----	8,183	8,183	-----	15	-----	-----
1902	9	9	-----	10,395	10,395	-----	23	-----	-----
1903	11	11	-----	13,000	13,000	-----	33	-----	-----
1904 <sup>4</sup>	23	22	( <sup>5</sup> )	24,629	23,682	947	55	55	( <sup>5</sup> )
1905	25	25	( <sup>5</sup> )	40,000	39,030	970	78	77	1
1906	34	33	1	62,900	61,850	1,050	107	106	1
1907	44	43	1	93,400	92,040	1,360	142	140	2
1908	65	63	2	137,800	135,250	2,550	198	194	3
1909 <sup>3</sup>	131	128	3	165,149	159,919	5,230	312	306	6
1910	187	181	6	225,000	215,340	9,660	468	458	10
1911	210	199	11	246,000	225,000	21,000	640	620	20
1912	378	356	22	378,000	335,000	43,000	944	903	41
1913	485	462	23	443,902	399,902	44,000	1,258	1,194	64
1914 <sup>3</sup>	569	544	25	458,958	413,859	45,098	1,711	1,626	86
1915	970	896	74	701,778	575,978	125,800	2,446	2,310	136
1916	1,618	1,526	92	1,082,378	921,378	161,000	3,513	3,298	215
1917	1,874	1,746	128	1,274,488	1,053,506	220,983	4,983	4,657	326
1918	1,171	943	227	1,236,107	801,938	434,169	6,147	5,622	525
1919	1,934	1,658	276	1,885,113	1,461,786	423,327	7,565	6,771	794
1920	2,227	1,906	322	2,232,420	1,809,171	423,249	9,232	8,226	1,006
1921	1,682	1,529	153	1,261,667	1,095,883	165,784	10,463	9,483	980
1922	2,646	2,398	248	1,793,023	1,571,569	221,454	12,238	10,960	1,279
1923	4,180	3,780	400	2,592,033	2,282,954	309,080	15,092	13,540	1,553
1924	3,758	3,328	410	2,367,413	2,049,102	318,311	17,594	15,461	2,133
1925	4,428	3,905	523	3,015,164	2,555,419	459,744	19,937	17,496	2,441
1926	4,506	3,984	522	3,214,817	2,758,446	456,371	22,001	19,237	2,764
1927	3,580	3,093	487	2,700,706	2,269,056	431,650	23,133	20,219	2,914
1928	4,601	4,025	577	3,162,799	2,708,955	453,844	24,493	21,379	3,114

<sup>2</sup> See headnote

<sup>3</sup> Road tractors are not included prior to 1924

<sup>4</sup> Production data are from United States Census Reports and in 1900 are for fiscal year ended June 30.

<sup>5</sup> Less than 500

Sources: National Automobile Chamber of Commerce and Bureau of Public Roads.

No. 411.—PRODUCTION OF OPEN AND CLOSED CARS BY PRICE GROUPS IN UNITED STATES AND CANADA <sup>1</sup>

Year	Under \$1,000		\$1,000 to \$2,000		\$2,000 to \$3,000		\$3,000 and over		Per cent closed, all classes
	Open	Closed	Open	Closed	Open	Closed	Open	Closed	
1919	888,500	87,900	532,200	46,300	52,900	16,700	23,100	10,100	9.7
1920	904,900	213,700	545,300	74,300	63,200	17,800	49,700	14,300	17.0
1921	820,100	224,600	287,800	65,000	51,600	30,100	19,500	15,300	22.1
1922	1,343,000	431,400	315,400	207,300	11,700	48,200	8,700	32,100	30.0
1923	2,074,200	994,100	396,300	221,000	7,700	37,500	2,900	27,300	84.0
1924	1,648,360	786,440	227,257	572,943	9,867	33,333	3,689	39,211	43.1
1925	1,432,557	1,421,143	239,363	674,237	14,060	56,240	10,920	51,480	56.5
1926	979,040	2,080,460	120,667	657,833	9,922	53,678	17,900	53,700	71.6
1927	320,912	1,654,788	202,306	704,894	30,141	108,750	6,204	27,696	81.9
1928	618,821	2,313,979	66,103	851,997	5,998	127,302	4,939	34,261	82.7

<sup>1</sup> Prior to 1922 figures are based only on price of five-passenger open cars of a given chassis. Thus, if this model sold for less than \$1,000, the total production of cars with the same chassis is included in the "under \$1,000" class, even though closed models sold for over \$1,000. In 1922 and later years actual f. o. b. prices of open and closed models are considered separately and the cars included under proper classification.

Source: Automotive Industries. The grouping is based on retail prices f. o. b. factory

## No. 412.—MOTOR-VEHICLE: PRODUCTION IN THE UNITED STATES

Month	1920	1921	1922	1923	1924	1925	1926	1927	1928
Passenger cars									
Total	1,905,569	1,453,111	2,302,923	3,051,130	3,214,905	3,768,993	3,819,162	2,946,601	3,826,613
January	157,115	45,397	80,194	224,549	287,193	211,765	278,095	109,650	205,646
February	158,921	60,326	104,936	254,803	337,045	249,397	326,472	264,171	291,151
March	193,641	98,941	152,311	324,314	347,164	329,115	388,703	346,031	371,821
April	149,457	137,649	197,903	340,283	337,268	385,058	389,954	358,682	364,877
May	182,027	144,097	232,439	350,279	277,284	374,289	378,826	358,725	375,863
June	192,826	177,086	252,704	338,424	220,794	359,595	343,888	280,629	356,622
July	181,051	165,016	246,897	300,806	242,177	356,688	320,411	287,811	338,792
August	176,234	167,756	246,897	317,141	254,610	222,314	383,227	275,585	400,593
September	160,520	144,670	184,485	300,647	262,695	266,506	354,355	226,443	358,872
October	138,031	134,774	211,164	335,836	260,244	396,590	292,562	183,042	339,976
November	118,944	106,081	201,955	286,006	204,323	333,742	222,419	109,758	217,266
December	96,793	70,727	205,142	277,947	179,233	283,934	139,850	106,033	205,144
Motor trucks and busses									
Total	321,789	143,712	241,253	382,832	392,535	493,837	481,772	454,735	530,771
January	30,822	7,840	9,180	21,340	31,391	23,814	30,003	39,258	26,682
February	29,109	10,273	12,935	23,283	33,524	34,241	37,180	40,564	32,645
March	35,571	13,512	19,176	35,162	36,260	45,291	44,764	48,482	41,596
April	23,941	14,561	21,491	38,855	38,630	48,734	49,382	47,700	45,227
May	27,992	12,708	23,133	45,276	37,863	44,767	46,341	46,923	49,929
June	32,351	13,434	26,172	41,686	31,006	38,929	42,831	43,197	46,174
July	28,601	11,254	21,932	30,948	27,635	42,959	39,199	31,585	53,294
August	28,971	13,514	23,971	31,075	30,083	37,922	43,624	34,409	60,705
September	27,994	14,090	19,442	27,073	33,687	59,222	44,583	33,867	56,422
October	27,267	13,235	21,660	30,625	34,309	45,391	41,859	36,640	57,136
November	16,031	10,563	21,968	28,498	30,288	38,529	33,882	24,612	39,679
December	12,639	8,728	20,143	29,061	27,829	32,738	28,074	27,488	27,991

## No. 413.—STATE GASOLINE TAXES

NOTE.—In a majority of States all the proceeds of these taxes and in all but a few of the others the great bulk of the proceeds are applied to road purposes

State	Total gross receipts in thousands of dollars			Tax in cents per gallon on Dec. 31—		State	Total gross receipts in thousands of dollars			Tax in cents per gallon on Dec 31—	
	1925	1927	1928	1927	1928		1925	1927	1928	1927	1928
Total	146,029	268,839	305,234	---	---	Montana	675	1,436	1,633	3	3
Alabama	2,141	5,909	6,614	4	4	Nebraska	2,194	3,665	3,941	2	2
Arizona	856	1,389	2,018	4	4	Nevada	319	472	531	4	4
Arkansas	12,950	24,339	5,333	5	5	New Hampshire	707	1,269	1,894	3	4
California	14,957	22,467	29,567	3	3	New Jersey	(*)	4,083	8,470	2	2
Colorado	1,961	3,140	3,921	3	3	New Mexico	537	1,416	1,852	5	5
Connecticut	1,909	3,055	3,512	2	2	North Carolina	6,082	8,787	9,787	4	4
Delaware	342	662	800	3	3	North Dakota	634	1,276	1,479	2	2
Dist. of Col.	840	1,149	1,263	5	5	Ohio	9,010	19,910	24,886	3	3
Florida	7,658	10,981	11,258	5	5	Oklahoma	5,144	7,198	8,143	3	3
Georgia	4,419	7,066	8,245	4	4	Oregon	2,909	3,643	4,008	3	3
Idaho	895	1,572	1,884	4	4	Pennsylvania	8,353	17,296	21,998	3	3
Illinois	(*)	6,200	4,837	2	(*)	Rhode Island	318	916	1,182	2	2
Indiana	7,653	10,134	11,178	3	3	South Carolina	3,865	5,080	5,518	5	5
Iowa	3,505	7,248	8,536	3	3	South Dakota	1,848	2,394	3,159	4	4
Kansas	2,905	4,595	5,395	2	2	Tennessee	3,408	4,476	5,135	3	3
Kentucky	3,042	5,913	6,743	5	5	Texas	4,642	15,651	17,945	3	2
Louisiana	2,940	3,084	3,331	2	2	Utah	1,064	1,461	1,665	3 1/2	3 1/2
Maine	1,268	2,289	3,192	4	4	Vermont	502	905	1,119	3	3
Maryland	1,977	4,169	5,426	4	4	Virginia	3,709	7,140	8,616	4 1/2	5
Michigan	8,236	14,261	18,335	3	3	Washington	3,021	3,821	4,207	2	2
Minnesota	3,864	5,176	5,768	2	2	West Virginia	2,187	3,794	4,306	4	4
Mississippi	2,494	4,891	5,697	4	2	Wisconsin	4,032	6,027	6,857	2	2
Missouri	4,159	6,331	6,948	2	2	Wyoming	456	756	954	3	3

1 In addition, \$438,436 was collected on motor-oil tax of 10 cents per gallon

2 Tentative data, accounts to be audited.

3 No tax imposed

4 January receipts only; law found invalid Feb. 24, 1928.

5 Includes \$130,206 in 1927 and \$131,842 in 1928 extra tax for sea wall to protect State highway

Sources Table 412, Survey of Current Business, Department of Commerce, Table 413, Bureau of Public Roads, Department of Agriculture.

# **No. 414.—MOTOR VEHICLE REGISTRATIONS: PASSENGER CARS AND MOTOR TRUCKS COMBINED, BY STATES**

NOTE.—Net number of cars and trucks shown when possible, excluding registrations and nonresident registrations. Totals in this table do not include those official cars which are exempt (or partially exempt) from paying regular registration fees to the States

Division and State	1913	1915	1920	1924 <sup>1</sup>	1926 <sup>1</sup>	1927 <sup>1</sup>	1928 <sup>1</sup>	
							Total	Per 1,000 population
<b>Continental United States</b>	<b>1,258,662</b>	<b>2,445,669</b>	<b>9,231,941</b>	<b>17,569,677</b>	<b>22,061,393</b>	<b>23,133,241</b>	<b>24,493,194</b>	<b>204</b>
<b>New England</b>	<b>121,327</b>	<b>206,609</b>	<b>573,321</b>	<b>1,143,232</b>	<b>1,378,731</b>	<b>1,432,801</b>	<b>1,523,298</b>	<b>194</b>
Maine	11,022	21,545	62,907	127,598	151,486	163,623	172,638	217
New Hampshire	8,237	13,449	34,680	71,149	89,061	96,000	102,644	225
Vermont	5,913	11,499	31,625	61,179	74,063	79,527	86,231	245
Massachusetts	62,660	102,633	274,493	570,573	690,190	694,107	726,205	169
Rhode Island	10,295	16,362	50,477	95,482	110,746	118,014	125,698	176
Connecticut	23,200	41,121	119,134	217,236	263,235	281,521	309,792	186
<b>Middle Atlantic</b>	<b>266,033</b>	<b>497,227</b>	<b>1,474,106</b>	<b>3,146,194</b>	<b>3,922,033</b>	<b>4,205,229</b>	<b>4,494,579</b>	<b>178</b>
New York	134,495	255,242	676,205	1,412,879	1,815,434	1,937,918	2,033,942	180
New Jersey	51,360	81,848	227,737	504,470	651,415	712,395	753,430	193
Pennsylvania	80,178	160,137	570,164	1,228,845	1,455,184	1,554,915	1,642,207	167
<b>East North Central</b>	<b>314,524</b>	<b>653,665</b>	<b>2,229,393</b>	<b>4,405,397</b>	<b>5,494,142</b>	<b>5,673,418</b>	<b>5,969,280</b>	<b>232</b>
Ohio	96,156	181,332	621,390	1,241,690	1,480,246	1,570,734	1,649,699	249
Indiana	45,600	96,915	333,067	651,705	772,326	813,637	833,806	259
Illinois	64,656	180,832	568,924	1,119,236	1,370,593	1,438,935	1,504,369	203
Michigan	54,366	114,845	412,717	867,545	1,118,785	1,154,773	1,240,221	272
Wisconsin	34,346	79,741	293,293	525,221	662,282	693,289	742,135	251
<b>West North Central</b>	<b>232,044</b>	<b>499,962</b>	<b>1,732,946</b>	<b>3,639,413</b>	<b>3,187,939</b>	<b>3,239,370</b>	<b>3,410,067</b>	<b>257</b>
Minnesota	46,000	93,269	324,166	503,437	630,285	646,682	673,573	247
Iowa	70,299	145,109	437,373	616,128	698,998	704,203	733,466	302
Missouri	38,140	76,462	297,068	540,500	654,554	682,419	712,965	202
North Dakota	15,187	24,908	90,840	177,346	137,822	160,701	173,523	271
South Dakota	13,457	28,724	120,395	142,396	169,230	198,552	191,374	272
Nebraska	13,411	59,000	219,000	308,715	366,773	373,912	391,355	273
Kansas	34,550	72,520	294,169	410,891	491,276	501,901	533,799	291
<b>South Atlantic</b>	<b>77,823</b>	<b>150,594</b>	<b>806,053</b>	<b>1,642,194</b>	<b>2,204,899</b>	<b>2,344,596</b>	<b>2,423,175</b>	<b>151</b>
Delaware	2,440	5,052	13,300	35,136	44,334	47,124	51,210	210
Maryland	14,217	31,047	102,841	198,495	252,832	276,863	283,311	177
Dist. of Columbia	4,000	8,009	34,161	68,762	111,497	111,680	126,556	229
Virginia	9,022	21,357	115,470	261,945	322,614	337,607	360,545	140
West Virginia	5,144	13,279	80,664	191,085	227,835	245,819	251,536	146
North Carolina	10,000	21,000	140,860	302,232	335,047	340,499	364,376	158
South Carolina	10,000	15,000	93,843	161,753	181,139	199,635	216,805	116
Georgia	420,000	25,000	146,000	207,688	277,163	300,635	318,856	100
Florida	43,000	10,850	73,914	195,128	401,562	394,734	352,961	250
<b>East South Central</b>	<b>26,360</b>	<b>48,421</b>	<b>367,658</b>	<b>726,426</b>	<b>992,328</b>	<b>1,041,770</b>	<b>1,142,129</b>	<b>121</b>
Kentucky	7,210	19,500	112,683	229,804	281,557	285,621	304,281	119
Tennessee	10,000	7,618	101,852	204,680	279,639	294,567	325,137	129
Alabama	5,300	11,634	74,637	187,262	225,930	243,339	268,519	105
Mississippi	3,850	9,669	68,486	134,680	203,200	218,043	246,242	137
<b>West South Central</b>	<b>48,583</b>	<b>84,433</b>	<b>772,655</b>	<b>1,491,719</b>	<b>1,998,726</b>	<b>2,076,101</b>	<b>2,223,364</b>	<b>188</b>
Arkansas	3,583	8,621	59,082	141,983	209,419	206,568	214,931	111
Louisiana	10,000	11,380	73,000	178,000	239,500	255,000	264,293	136
Oklahoma	43,000	25,032	212,880	369,963	499,933	503,126	539,543	213
Texas	32,000	40,000	427,693	801,833	1,049,869	1,111,407	1,214,297	221
<b>Mountain</b>	<b>33,215</b>	<b>78,530</b>	<b>374,473</b>	<b>591,750</b>	<b>735,286</b>	<b>794,606</b>	<b>861,418</b>	<b>220</b>
Montana	5,916	14,540	60,650	79,695	103,958	112,735	126,035	230
Idaho	2,113	7,071	50,861	69,227	94,760	101,336	108,154	198
Wyoming	1,584	3,976	23,926	43,639	49,883	51,955	56,336	228
Colorado	13,000	28,894	129,255	213,247	248,613	268,492	284,867	261
New Mexico	1,898	5,100	22,100	41,680	54,966	59,291	65,787	166
Arizona	3,613	7,753	34,601	57,823	73,682	81,047	94,872	169
Utah	4,000	9,177	42,616	68,316	85,380	93,974	98,541	186
Nevada	1,091	2,009	10,464	18,118	24,014	25,776	27,376	356
<b>Pacific</b>	<b>138,158</b>	<b>226,205</b>	<b>861,333</b>	<b>1,807,452</b>	<b>2,197,322</b>	<b>2,322,350</b>	<b>2,460,883</b>	<b>348</b>
Washington	24,178	38,823	173,920	295,443	363,279	384,538	402,373	254
Oregon	13,975	23,585	103,790	192,615	263,568	244,572	248,118	275
California	100,000	163,797	583,623	1,319,394	1,600,475	1,693,195	1,790,390	395

<sup>1</sup> Includes road tractors (excluding farm tractors)

not included prior to 1924.

<sup>2</sup> Includes nonresident registrations

<sup>3</sup> Fiscal registration year ends June 30; figures represent registration July 1 to Dec 31

<sup>4</sup> Registrations incomplete.

<sup>5</sup> Estimated.

<sup>6</sup> Cars registered during 1915 only, total, approximately 26,000

<sup>7</sup> Approximate.

Source. Bureau of Public Roads, Department of Agriculture.

## No. 415.—REGISTRATIONS AND REVENUES FROM MOTOR VEHICLES, 1928

Division and State	Number of motor cars				Trailers, regis- tered <sup>1</sup>	Motor cycles, regis- tered and official com- bined	Receipts from motor-vehicle administration		Amount applied to rural high- way work
	Total	Individually and commercially owned, registered		Tax- exempt official motor cars			Total re- ceipts <sup>2</sup>	Regis- tration motor cars <sup>3</sup>	
		Passenger cars, busses, and taxis	Trucks and road tractors						
Thousands of dollars									
Continental U. S.	24,629,921	21,379,125	3,113,999	136,797	148,169	121,656	322,630	258,528	301,105
New England	1,528,029	1,311,138	212,160	4,731	2,683	13,832	30,494	24,192	28,404
Maine	174,028	159,460	33,178	1,390	1,068	1,204	2,767	2,147	2,403
New Hampshire	102,666	88,594	14,050	22	545	1,330	2,071	1,674	1,906
Vermont	86,269	78,685	7,546	28	218	521	2,091	1,784	2,091
Massachusetts	726,851	637,153	89,142	556	547	6,856	13,920	11,128	12,568
Rhode Island	126,439	106,155	19,543	741	61	1,166	2,274	1,832	2,062
Connecticut	311,786	261,091	48,701	1,994	224	2,665	7,374	5,627	7,374
Middle Atlantic	4,509,795	3,811,254	673,825	25,216	13,429	37,088	74,990	61,778	65,997
New York	2,099,761	1,760,549	323,393	15,819	7,148	15,802	34,307	31,054	29,197
New Jersey	765,501	629,748	128,682	7,771	1,996	7,479	13,569	9,934	12,431
Pennsylvania	1,644,533	1,420,957	221,250	2,326	4,285	13,807	27,114	20,760	24,381
East North Central	5,992,104	5,203,972	766,148	22,884	49,842	24,974	63,946	59,969	61,906
Ohio	1,662,153	1,450,994	198,705	12,459	14,606	9,472	11,840	11,266	11,454
Indiana	831,521	706,713	117,093	7,715	7,894	3,124	5,752	5,348	5,503
Illinois	1,505,338	1,314,003	190,356	879	3,742	5,826	15,522	14,879	15,456
Michigan	1,249,592	1,084,615	164,606	371	23,198	3,686	20,057	18,367	19,328
Wisconsin	743,495	646,747	95,888	1,360	412	2,866	10,775	10,409	10,135
West North Central	3,421,691	3,045,988	364,189	11,634	9,462	8,396	43,583	38,883	42,392
Minnesota	674,978	583,789	89,784	1,405	3,894	2,083	10,102	10,011	10,102
Iowa	736,710	672,447	61,019	3,244	230	1,728	10,693	10,134	10,436
Missouri	714,748	636,717	76,248	1,783	2,004	1,824	8,766	8,766	8,396
North Dakota	173,528	151,778	21,747	3	---	236	1,775	1,760	1,605
South Dakota	192,404	171,067	20,307	1,030	230	2,002	2,872	2,872	2,842
Nebraska	392,869	358,173	33,182	1,514	2,975	1,026	3,951	3,729	3,833
Kansas	536,454	471,897	61,902	2,655	359	1,259	5,304	5,377	5,108
South Atlantic	2,455,079	2,139,322	288,854	26,903	7,627	11,733	31,660	23,369	28,737
Delaware	61,254	51,195	10,015	44	301	345	929	745	929
Maryland	288,780	275,221	10,090	3,469	683	2,232	3,035	2,381	2,124
Dist. Columbia	129,581	112,505	14,051	3,025	---	1,292	474	135	---
Virginia	364,748	306,911	55,834	4,203	646	2,271	5,572	5,169	5,312
West Virginia	253,683	215,787	35,769	2,137	600	1,479	4,143	3,807	3,903
North Carolina	471,005	418,864	45,512	6,629	1,944	1,244	6,088	5,788	5,788
South Carolina	219,550	194,267	22,558	2,745	1,637	432	2,441	2,282	2,415
Georgia	319,790	277,831	40,975	934	816	1,078	4,042	3,976	3,899
Florida	356,688	296,691	56,270	3,727	1,000	1,300	4,936	4,874	4,367
East South Central	1,148,457	1,016,721	125,406	6,328	4,871	2,547	15,079	4,582	14,482
Kentucky	306,231	272,636	31,595	2,000	( <sup>4</sup> )	808	4,725	4,582	4,530
Tennessee	325,558	294,305	27,832	3,421	( <sup>4</sup> )	1,059	4,066	---	3,957
Alabama	270,352	235,026	34,493	833	1,952	611	3,474	---	3,322
Mississippi	246,316	214,754	31,488	74	2,619	69	2,814	---	2,673
West South Central	2,227,498	1,930,303	293,061	4,134	18,009	5,599	32,130	24,970	31,554
Arkansas	215,821	181,280	33,651	890	2,054	369	3,788	3,706	3,710
Louisiana	264,502	223,445	40,848	209	4,000	625	4,384	4,303	4,384
Oklahoma	530,373	465,550	64,293	530	---	1,124	6,259	---	6,259
Texas	1,216,802	1,060,028	154,269	2,505	11,955	3,481	17,701	16,961	17,201
Mountain	887,730	766,589	94,829	6,312	1,676	3,116	7,468	4,840	6,976
Montana	127,506	104,231	21,804	1,471	---	185	1,299	---	1,190
Idaho	109,488	96,960	11,194	1,334	264	424	1,627	1,578	1,627
Wyoming	56,841	48,760	7,576	505	---	128	573	570	573
Colorado	285,150	260,906	23,961	283	85	1,234	1,790	1,599	1,573
New Mexico	66,638	63,743	1,994	901	340	250	628	599	557
Arizona	95,533	86,036	8,336	1,161	809	281	566	434	566
Utah	98,714	84,220	14,321	173	---	520	731	---	691
Nevada	27,890	21,733	5,643	484	178	94	249	---	238
Pacific	2,471,679	2,154,858	296,025	20,796	40,590	14,381	23,289	20,946	20,731
Washington	407,493	344,977	57,898	4,618	2,737	2,737	7,028	6,368	6,241
Oregon	249,553	227,404	20,714	1,435	1,238	2,046	6,969	6,720	6,669
California	1,814,633	1,582,477	217,413	14,743	37,073	9,598	9,292	7,858	7,821

<sup>1</sup> Some States include trailers with trucks, as noted; other States do not register trailers.<sup>2</sup> Includes registration fees, licenses, permits, fines, etc.; excludes gasoline taxes.<sup>3</sup> Totals include only the States shown; separate data not available for 9 States.<sup>4</sup> Includes 7,859 "cars at large" not allocated to any State.<sup>5</sup> Busses included with trucks.<sup>6</sup> Includes \$130,000 for State bridge fund.<sup>7</sup> Estimated.

Source: Bureau of Public Roads, Department of Agriculture.

# No. 416.—AUTOMOBILE FATALITIES IN ENTIRE DEATH REGISTRATION AREA IN CONTINENTAL UNITED STATES

NOTE.—Figures include all deaths from accidents caused by motor vehicles except motor cycles, but exclude deaths from collisions of automobiles with railroad trains and street cars

Year	Entire registration area			Registration States				
	Population	Number of deaths	Rate per 100,000 population	Population	Number of deaths	Rate per 100,000 population	Number of cars registered	Deaths per 100,000 cars
1911-----	59,183,071	1,291	2.2	54,285,189	1,150	2.2	-----	-----
1912-----	60,359,974	1,758	2.9	55,188,437	1,563	2.8	-----	-----
1913-----	63,200,625	2,488	3.9	55,235,115	2,241	3.8	882,911	253.8
1914-----	65,813,315	2,826	4.3	60,943,663	2,571	4.2	1,234,844	208.2
1915-----	67,095,681	3,978	5.9	61,881,753	3,589	5.8	1,775,064	202.2
1916-----	71,349,162	5,193	7.3	66,371,691	4,737	7.1	2,511,805	188.6
1917-----	74,984,498	6,724	9.0	69,646,824	6,064	8.7	3,530,268	171.8
1918-----	81,333,675	7,525	9.3	79,536,574	7,310	9.2	4,715,317	155.0
1919-----	85,160,043	7,963	9.4	83,612,508	7,771	9.3	5,922,572	131.2
1920-----	87,486,713	9,103	10.4	86,043,627	8,878	10.3	7,440,420	119.3
1921-----	88,667,602	10,168	11.5	87,183,738	9,903	11.4	8,578,536	115.4
1922-----	93,241,643	11,666	12.5	91,959,820	11,466	12.5	10,374,998	110.5
1923-----	96,986,371	14,411	14.9	95,613,844	14,157	14.8	13,359,965	106.0
1924-----	99,200,298	15,528	15.7	97,667,916	15,221	15.6	15,713,654	96.9
1925-----	103,108,000	17,571	17.0	101,319,000	17,149	16.9	17,892,640	95.8
1926-----	105,167,000	18,871	17.9	103,284,000	18,419	17.8	19,838,947	92.8
1927-----	108,327,000	21,160	19.5	106,510,200	20,704	19.4	21,084,564	98.2

  

Year	Rural area of registration States			Cities in registration States			Cities in nonregistration States		
	Population	Number of deaths	Rate per 100,000 population	Population	Number of deaths	Rate per 100,000 population	Population	Number of deaths	Rate per 100,000 population
1911-----	26,901,350	306	1.1	27,383,839	844	3.1	4,897,882	141	2.9
1912-----	27,144,493	442	1.6	28,043,944	1,121	4.0	5,171,537	195	3.8
1913-----	29,108,597	687	2.4	29,126,518	1,554	5.3	4,965,510	247	5.0
1914-----	30,829,210	896	2.9	30,114,453	1,675	5.6	4,869,652	255	5.2
1915-----	31,078,193	1,226	3.9	30,808,560	2,363	7.7	5,213,928	389	7.5
1916-----	34,752,780	1,684	4.8	31,618,911	3,053	9.7	4,977,471	456	9.2
1917-----	36,928,787	2,174	5.9	32,718,037	3,890	11.9	5,337,674	660	12.4
1918-----	41,814,499	2,368	5.7	37,692,075	4,942	13.1	1,797,101	215	12.0
1919-----	44,664,983	2,508	5.6	38,947,525	5,263	13.5	1,553,535	197	12.7
1920-----	44,310,060	2,757	6.2	41,733,567	6,121	14.7	1,443,086	225	15.6
1921-----	44,572,803	3,368	7.6	42,610,935	6,535	15.3	1,483,864	265	17.9
1922-----	47,859,762	4,020	8.4	44,099,858	7,446	16.9	1,282,023	200	15.6
1923-----	49,882,530	5,209	10.4	45,731,314	8,948	19.6	1,372,527	254	18.5
1924-----	51,208,182	5,698	11.1	46,459,734	9,553	20.6	1,532,382	307	20.0
1925-----	53,779,000	6,509	12.1	47,540,000	10,640	22.4	1,789,000	422	23.6
1926-----	54,663,900	7,348	13.4	48,620,300	11,071	22.8	1,883,300	452	24.0
1927-----	56,717,500	8,452	14.9	49,792,700	12,252	24.6	1,816,500	456	25.1

Sources Bureau of the Census, Department of Commerce, and Bureau of Public Roads, Department of Agriculture

# No. 417.—AUTOMOBILE FATALITIES IN STATES AND LARGE CITIES HAVING DEATH REGISTRATION

NOTE.—Figures include all deaths from accidents caused by motor vehicles except motor cycles, but exclude deaths from collisions of automobiles with railroad trains and street cars. See Table 81 for per cent of total population included in the registration area for each year

State	Number of deaths						Rate per estimated 100,000 population					
	1921-1925, average	1923	1924	1925	1926	1927	1921-1925, average	1923	1924	1925	1926	1927
Registration area in continental United States.....	13,869	14,411	15,528	17,571	18,871	21,160	14.4	14.9	15.7	17.0	17.9	19.5
Registration States <sup>1</sup> .....	13,579	14,157	15,221	17,149	18,419	20,704	14.2	14.8	15.6	16.9	17.8	19.4
Cities <sup>1</sup> .....	8,624	8,948	9,553	10,640	11,071	12,252	18.0	19.6	20.6	22.4	22.8	24.6
Rural.....	4,955	5,209	5,668	6,509	7,348	8,452	9.9	10.4	11.1	12.1	13.4	14.9
Cities in nonregistration States.....	290	254	307	422	452	456	19.1	18.5	20.0	23.6	24.0	25.1
All registration cities <sup>1</sup> .....	8,914	9,202	9,860	11,062	11,523	12,708	18.9	19.5	20.5	22.4	22.8	24.6
REGISTRATION STATES												
Alabama.....	<sup>1</sup> 252	(3)	(3)	252	319	361	<sup>2</sup> 10.1	(3)	(3)	10.1	12.6	14.2
Arizona.....	(3)	(3)	(3)	(3)	116	140	(3)	(3)	(3)	(3)	26.1	30.5
Arkansas.....	(3)	(3)	(3)	(3)	(3)	170	(3)	(3)	(3)	(3)	(3)	8.8
California.....	1,131	1,239	1,254	1,327	1,464	1,628	29.0	32.6	32.0	31.7	33.9	36.7
Colorado.....	148	157	158	146	175	234	14.8	15.9	15.7	14.0	16.5	21.8
Connecticut.....	260	249	277	340	307	327	17.3	16.9	18.4	21.6	19.1	20.0
Delaware.....	36	55	46	37	50	62	15.5	23.9	19.8	15.3	20.8	25.5
Florida.....	217	170	242	449	515	425	18.6	16.2	19.7	35.5	39.1	31.2
Georgia.....	<sup>4</sup> 260	239	307	(5)	(5)	(5)	4.8	8.6	10.1	(5)	(5)	(5)
Idaho.....	<sup>6</sup> 46	51	54	56	77	76	<sup>6</sup> 9.5	10.8	11.2	11.0	14.8	14.2
Illinois.....	1,051	1,031	1,065	1,268	1,338	1,512	15.3	15.2	15.5	17.9	18.6	20.7
Indiana.....	399	433	480	509	547	665	13.2	14.4	15.8	16.4	17.5	21.1
Iowa.....	<sup>7</sup> 241	242	211	271	264	284	<sup>7</sup> 10.0	9.8	8.7	11.2	10.9	11.7
Kansas.....	193	217	169	240	241	253	10.7	12.1	9.4	13.2	13.2	13.8
Kentucky.....	167	166	197	237	277	299	6.8	6.7	8.0	9.4	11.0	11.8
Louisiana.....	162	158	210	241	271	295	8.7	8.5	11.3	12.7	14.1	15.3
Maine.....	83	91	91	98	100	112	10.6	11.7	11.7	12.5	12.7	14.1
Maryland.....	232	243	246	271	312	330	15.3	16.1	16.2	17.4	19.7	20.7
Massachusetts.....	609	611	685	729	682	696	15.1	15.2	16.7	17.6	16.2	16.4
Michigan.....	714	738	863	955	1,112	1,266	17.6	18.6	21.2	23.3	25.3	28.2
Minnesota.....	306	323	366	361	326	369	12.1	13.1	14.5	13.8	12.3	13.7
Mississippi.....	96	78	125	170	215	243	5.4	4.4	7.0	9.5	12.0	13.6
Missouri.....	391	398	449	509	493	517	11.3	11.6	13.0	14.6	14.1	14.7
Montana.....	60	49	69	84	93	73	9.6	8.0	11.0	12.5	13.4	10.2
Nebraska.....	119	123	113	125	154	198	8.9	9.2	8.4	9.1	11.1	14.2
New Hampshire.....	59	59	61	87	68	71	13.1	13.2	13.6	19.2	15.0	15.6
New Jersey.....	643	672	746	771	792	973	18.7	19.9	21.7	21.4	21.5	26.0
New York.....	1,839	1,930	1,985	2,111	2,173	2,384	17.4	17.8	18.0	18.9	19.3	20.9
North Carolina.....	254	258	328	376	455	503	9.3	9.6	12.0	13.4	15.9	17.4
North Dakota.....	<sup>8</sup> 52	(3)	45	59	72	81	<sup>8</sup> 8.1	(3)	7.0	9.2	10.9	11.2
Ohio.....	988	1,078	1,024	1,285	1,317	1,494	15.9	17.6	16.5	19.9	20.0	22.3
Oregon.....	125	120	144	144	187	194	15.0	14.6	17.3	16.7	21.3	21.8
Pennsylvania.....	1,405	1,592	1,535	1,576	1,734	1,860	15.3	17.5	16.7	18.6	18.0	19.1
Rhode Island.....	104	97	113	133	127	131	15.9	15.5	16.9	19.6	18.3	18.6
South Carolina.....	123	119	167	179	192	279	7.0	6.8	9.5	9.9	10.5	15.1
Tennessee.....	195	171	232	278	312	345	8.1	7.1	9.6	11.4	12.6	13.9
Utah.....	68	60	81	89	80	79	14.0	12.6	16.7	17.7	15.6	15.1
Vermont.....	42	46	48	56	45	60	11.9	13.1	13.6	15.9	12.8	17.0
Virginia.....	198	200	240	271	303	376	8.2	8.3	9.9	10.9	12.0	14.8
Washington.....	236	240	285	299	342	365	16.2	16.7	18.2	19.8	22.2	23.4
West Virginia.....	<sup>2</sup> 208	(3)	(3)	208	231	298	<sup>2</sup> 12.7	(3)	(3)	12.7	13.8	17.6
Wisconsin.....	306	292	363	397	384	511	11.1	10.7	13.1	13.9	13.3	17.5
Wyoming.....	<sup>9</sup> 51	51	59	67	56	66	<sup>9</sup> 23.3	24.1	27.2	29.3	23.7	27.4
REGISTRATION CITIES												
Akron.....	39	40	39	60	62	75	<sup>9</sup> 13.5	(10)	(10)	(10)	(10)	(10)
Albany.....	28	27	28	35	41	36	23.9	23.0	23.9	29.7	34.5	30.1
Atlanta.....	53	55	53	65	68	65	<sup>11</sup> 22.7	24.7	(10)	(10)	27.9	26.1
Baltimore.....	130	131	129	158	178	171	16.8	16.9	16.4	19.8	22.0	20.9
Birmingham.....	46	49	55	51	57	51	23.5	25.0	27.4	24.8	27.1	23.4
Boston.....	132	133	143	154	149	140	7.2	17.3	18.4	19.8	18.9	17.7
Bridgeport.....	25	23	21	26	31	25	<sup>9</sup> 19.4	(10)	(10)	(10)	(10)	(10)

For footnotes see following page.



## No. 417.—AUTOMOBILE FATALITIES IN STATES AND LARGE CITIES HAVING DEATH REGISTRATION—Continued

City	Number of deaths						Rate per estimated 100,000 population					
	1921-1925, average	1923	1924	1925	1926	1927	1921-1925, average	1923	1924	1925	1926	1927
Buffalo.....	111	137	112	119	135	137	20.9	25.5	21.0	22.1	24.8	21.9
Cambridge.....	22	28	27	22	19	28	19.3	25.1	22.8	18.4	15.6	22.6
Camden.....	37	44	36	43	59	65	29.8	35.4	28.5	33.3	45.1	48.8
Chicago.....	597	589	560	645	693	787	20.7	20.4	19.0	21.5	22.7	25.1
Cincinnati.....	91	102	85	115	109	119	22.4	25.1	20.8	28.1	28.5	28.9
Cleveland.....	189	203	220	231	265	250	21.4	22.8	24.1	24.7	27.6	25.4
Columbus.....	54	58	59	71	70	72	20.6	22.2	20.0	25.4	24.5	24.7
Dallas.....	37	34	36	59	61	49	20.4	18.7	19.2	30.4	30.1	23.2
Dayton.....	28	27	26	44	52	44	16.9	16.3	15.4	25.4	29.4	24.3
Denver.....	44	45	40	37	48	61	16.2	(10)	15.6	13.2	16.8	21.0
Des Moines.....	7.19	18	17	23	30	30	7.13	12.8	12.1	16.3	20.6	20.1
Detroit.....	242	252	305	346	399	403	22.3	(10)	25.5	27.8	30.9	30.2
Fall River.....	16	22	16	17	19	11	12.9	18.2	12.5	13.2	14.5	8.3
Fort Worth.....	6.21	9	27	32	30	31	6.14	8.3	18.2	20.6	18.8	18.9
Grand Rapids.....	28	27	31	45	32	35	19.0	18.5	20.9	29.2	20.5	21.6
Hartford.....	38	40	33	53	46	49	26.0	26.3	21.1	33.1	28.0	29.1
Houston.....	28	25	31	31	40	57	17.6	(10)	22.4	(10)	(10)	(10)
Indianapolis.....	58	53	71	78	83	84	16.9	15.5	20.2	21.7	22.6	22.4
Jersey City.....	46	37	56	64	41	65	14.9	12.0	17.9	20.3	12.9	20.2
Kansas City, Kans.....	17	12	18	27	8	20	15.0	10.4	15.6	23.3	6.8	17.0
Kansas City, Mo.....	78	86	87	87	82	80	22.2	24.4	24.2	23.7	21.8	20.9
Los Angeles.....	220	224	267	258	286	353	28.3	(10)	(10)	(10)	(10)	(10)
Louisville.....	53	66	58	64	64	81	19.7	25.6	19.8	21.2	20.6	25.3
Lowell.....	19	18	23	26	22	16	16.8	15.6	20.8	23.6	19.9	14.5
Memphis.....	41	46	40	52	57	68	24.1	27.0	23.2	29.7	32.3	38.0
Milwaukee.....	73	62	83	102	101	121	15.0	12.8	16.8	20.0	19.5	22.6
Minneapolis.....	68	60	86	76	69	64	16.6	14.7	20.6	17.9	15.9	14.3
Nashville.....	29	28	34	38	39	46	23.4	22.8	27.5	27.9	28.5	33.4
New Bedford.....	14	8	13	18	11	16	11.3	6.2	10.0	15.1	9.2	13.4
New Haven.....	34	28	48	40	42	48	19.7	16.2	27.3	22.3	23.1	26.0
New Orleans.....	64	68	84	78	85	96	15.8	16.8	20.5	18.8	20.3	22.6
New York.....	961	964	1,000	1,060	1,082	1,099	16.4	16.3	17.2	18.0	18.3	18.4
Newark, N. J.....	94	107	104	110	109	122	21.4	24.4	23.3	24.3	23.7	26.1
Norfolk.....	17	13	16	24	25	35	11.5	8.2	(10)	14.2	14.4	19.5
Oakland.....	44	50	49	44	51	53	18.3	20.8	19.8	17.3	19.6	19.8
Omaha.....	30	40	29	35	33	49	14.7	19.6	13.9	16.5	15.3	22.4
Paterson.....	39	39	49	41	34	52	27.9	27.9	34.8	28.9	23.8	36.2
Philadelphia.....	262	294	263	296	329	324	13.6	15.3	13.5	15.0	16.4	15.9
Pittsburgh.....	146	146	186	188	183	215	23.6	23.5	29.7	26.3	25.6	32.3
Portland, Oreg.....	40	39	41	42	52	62	15.8	14.3	14.7	(10)	(10)	(10)
Providence.....	56	52	58	79	61	64	22.3	21.5	22.0	29.5	22.2	22.8
Reading.....	20	27	24	19	19	30	18.0	24.3	21.5	16.8	16.7	26.2
Richmond.....	28	26	33	41	37	45	15.5	14.4	18.0	22.0	19.6	24.0
Rochester.....	48	44	48	54	65	62	15.3	13.8	15.3	17.0	20.3	19.1
St. Louis.....	164	168	197	201	172	159	20.4	20.9	24.2	24.5	20.7	18.9
St. Paul.....	45	59	55	42	46	57	18.6	24.4	22.5	17.1	18.5	22.8
Salt Lake City.....	28	20	34	42	33	30	22.2	15.8	26.4	32.1	24.7	22.1
San Antonio.....	30	30	22	39	40	48	16.2	16.2	11.5	19.7	19.5	22.7
San Francisco.....	107	107	113	105	128	166	19.9	19.9	20.6	18.8	22.6	28.8
Saranton.....	30	41	24	33	32	31	21.3	29.2	17.0	23.2	22.4	23.6
Seattle.....	52	55	53	66	69	79	13.9	(10)	(10)	(10)	(10)	21.0
Spokane.....	17	15	22	21	27	21	16.2	(10)	21.0	19.3	24.8	19.3
Springfield, Mass.....	22	23	27	21	38	24	15.6	15.9	19.2	14.8	26.2	16.3
Syracuse.....	37	43	41	29	44	43	20.4	23.3	22.7	15.9	23.7	21.8
Toledo.....	52	63	46	67	74	108	19.3	23.4	16.4	23.3	25.1	35.4
Trenton.....	32	36	34	39	33	40	25.2	28.3	26.2	29.5	24.6	29.3
Washington, D. C.....	80	86	103	88	98	108	17.2	18.1	22.2	17.1	18.6	29.0
Wilmington, Del.....	21	29	29	21	29	40	17.8	24.6	24.2	17.2	28.3	31.6
Worcester.....	33	33	29	40	32	46	17.5	17.2	15.3	21.0	16.5	23.5
Yonkers.....	16	17	16	15	19	25	14.8	15.8	14.4	13.2	16.3	21.0
Youngstown.....	36	37	39	43	42	50	25.4	24.6	25.1	26.9	25.5	33.1

1 Including the District of Columbia

2 1925 only.

3 Not added to registration area until a later date

4 Average, 1922-1924

5 State registration law declared unconstitutional

6 Average, 1922-1925

7 Average, 1923-1925.

8 Average, 1924-1925.

9 Average, 1921-1922.

10 Estimates of population unsatisfactory.

11 Average, 1921-1923.

12 Average, 1921-1924.

Source. Bureau of the Census, Department of Commerce.



## 20.—STEAM AND ELECTRIC RAILWAYS AND EXPRESS COMPANIES

[Data in this section relate to continental United States unless otherwise stated]

**GENERAL NOTE**—The total steam railroad mileage of the United States includes (a) Regular interstate carriers (and their nonoperating subsidiaries) reporting to the Interstate Commerce Commission, (b) switching and terminal railroads, also reporting to the commission, and (c) private railroads (defined by the commission as "circular" because they report on brief circulars and as "unofficial"). Except in certain mileage data the circular and unofficial companies are not included in any of the statistics. The switching and terminal roads were formerly included with operating railways, but are now separated, and data for them do not appear in most of the tables.

Nonoperating subsidiaries include proprietary companies, which are covered by the reports of operating carriers, and lessor companies which have no traffic and whose reports appear only in statistics of capitalization, dividends, and investment.

Operating railways are divided into three classes, according to the amount of gross operating revenue in 1919: Class I, having more than \$1,000,000 of such revenue; Class II, from \$100,000 to \$1,000,000; and Class III, less than \$100,000. During recent years more detailed reports are required from Class I carriers than from smaller companies. The basis of the figures in each table is indicated by notes. Omission of Class II and Class III railroads affects very little the comparability of statistics with those of earlier years as regards most items, since the bulk of the business is done by Class I.

The Interstate Commerce Commission divides railroads geographically into three districts and eight subsidiary regions. Each railroad is treated as a unit and placed wholly in some one district or region. Broadly speaking, the eastern district includes territory east of Chicago and north of the Ohio and Potomac Rivers; southern district, territory east of the Mississippi River and south of the Ohio and Potomac Rivers; and western district the remainder of the country. The principal railroads of the eight regions are listed in Table 444.

Class I companies make monthly reports and the yearly totals from these become available earlier than the sometimes slightly corrected totals from the final annual reports. The latest figures in these tables are in many cases from the monthly reports.

### No. 418.—RAILWAY MILEAGE OWNED AND MILEAGE OPERATED CLASSIFIED BY TRACKAGE

**NOTE.**—Beginning with 1908 switching and terminal roads are omitted (they operate about 2,000 miles of first main track). The first and second columns cover all railways including "circular" and "unofficial" lines; the last five columns omit "circular" and "unofficial" lines. Mileage owned excludes all duplication and covers continental United States only. Mileage operated includes some duplication under trackage rights and some mileage in Canada operated by United States companies.

Year	Miles of road (first track) owned	Miles operated					Class I railways: Road (first track)
		All railways: Road (first track)	Reporting railways				
			Road (first track)	Other main tracks	Yard track and sidings	Total track	
June 30, 1890-----	163, 597	167, 191	156, 404	9, 760	33, 711	199, 875	-----
1895-----	180, 657	184, 628	177, 746	12, 348	43, 181	233, 275	-----
1900-----	193, 346	198, 964	192, 556	14, 075	52, 153	258, 784	-----
1905-----	218, 101	225, 190	216, 974	19, 881	69, 942	306, 797	-----
1910-----	240, 293	249, 992	240, 831	25, 354	85, 582	351, 767	-----
1911-----	243, 979	254, 732	246, 238	27, 612	88, 974	362, 824	216, 877
1912-----	246, 777	258, 033	249, 852	29, 367	92, 019	371, 238	220, 063
1913-----	249, 777	261, 036	253, 470	30, 827	95, 211	379, 508	224, 236
1914-----	252, 105	263, 547	256, 547	32, 376	98, 285	387, 208	226, 999
1915-----	253, 789	264, 378	257, 569	33, 602	99, 910	391, 141	228, 989
Dec. 31, 1916-----	254, 037	266, 381	259, 705	34, 325	102, 984	397, 014	231, 674
1917-----	253, 626	266, 015	259, 705	35, 066	105, 582	400, 353	232, 697
1918-----	253, 529	264, 233	258, 507	36, 228	107, 608	402, 343	233, 145
1919-----	253, 152	263, 707	258, 525	36, 730	108, 637	403, 892	234, 363
1920-----	252, 845	263, 821	259, 941	36, 894	109, 744	406, 579	235, 234
1921-----	251, 176	262, 544	258, 362	37, 614	111, 555	407, 531	234, 702
1922-----	250, 413	261, 954	257, 425	37, 888	114, 046	409, 359	234, 976
1923-----	250, 222	262, 482	258, 084	28, 697	116, 212	412, 993	235, 574
1924-----	250, 156	262, 158	258, 238	39, 916	116, 874	415, 028	235, 894
1925-----	249, 398	261, 371	258, 631	40, 962	118, 361	417, 954	236, 849
1926-----	249, 138	261, 562	258, 815	41, 686	120, 840	421, 341	237, 054
1927-----	249, 131	262, 091	259, 639	42, 071	123, 027	424, 737	238, 634

Source: Interstate Commerce Commission.

## No. 419.—RAILWAY MILEAGE OWNED: BY STATES

NOTE.—See headnote to Table 418. The data are for the actual length of line in each State without duplication. Figures relate to June 30 prior to 1920 and Dec. 31 thereafter, they include reporting, circular, and unofficial railways, but since 1908 exclude switching and terminal roads

State	1860 <sup>1</sup>	1870 <sup>1</sup>	1880 <sup>1</sup>	1890	1900	1910 <sup>2</sup>	1920	1925	1926	1927
United States <sup>3</sup>	30,626	52,922	93,267	183,597	193,346	240,439	352,645	249,398	249,138	249,131
New England	3,660	4,494	5,982	6,718	7,521	7,921	7,942	7,754	7,655	7,638
Maine	472	786	1,005	1,338	1,915	2,248	2,205	2,228	2,218	2,193
New Hampshire	661	736	1,015	1,145	1,239	1,246	1,262	1,234	1,198	1,198
Vermont	554	614	914	921	1,012	1,100	1,077	1,057	1,057	1,057
Massachusetts	1,264	1,480	1,915	2,094	2,119	2,115	2,106	2,071	2,019	2,019
Rhode Island	108	136	210	213	212	212	196	196	196	196
Connecticut	601	742	923	1,007	1,024	1,000	1,001	968	967	968
Middle Atlantic	5,840	9,709	13,832	18,161	20,769	21,989	22,393	22,003	21,986	21,919
New York	2,682	3,928	5,957	7,661	8,121	8,430	8,390	8,373	8,358	8,364
New Jersey	560	1,125	1,684	2,047	2,257	2,260	2,352	2,292	2,297	2,294
Pennsylvania	2,598	4,656	6,191	8,453	10,331	11,290	11,561	11,338	11,331	11,261
South Atlantic	5,979	7,349	9,789	18,270	23,392	29,795	32,380	31,935	31,925	31,860
Delaware	127	197	275	323	347	335	335	332	332	332
District of Columbia	(4)	(4)	(4)	30	32	36	36	37	36	36
Maryland	386	671	1,040	1,231	1,376	1,426	1,436	1,447	1,447	1,447
Virginia	1,379	1,486	1,893	3,160	3,779	4,535	4,703	4,554	4,548	4,528
West Virginia	352	387	691	1,328	2,238	3,631	3,996	4,038	4,024	4,007
North Carolina	967	1,178	1,486	3,001	3,831	4,932	5,522	5,347	5,306	5,223
South Carolina	973	1,139	1,427	2,194	2,818	3,442	3,814	3,748	3,745	3,744
Georgia	1,420	1,845	2,459	4,532	5,652	7,056	7,336	6,980	6,932	6,885
Florida	402	446	518	2,471	3,299	4,432	5,212	6,462	5,553	5,708
East North Central	9,583	14,701	25,109	38,924	41,007	44,928	44,904	43,843	43,740	43,684
Ohio	2,946	3,538	5,792	7,912	8,807	9,134	9,002	8,812	8,825	8,881
Indiana	2,163	3,177	4,373	5,971	6,471	7,420	7,426	7,187	7,187	7,182
Illinois	2,790	4,823	7,861	10,214	11,003	11,878	12,188	11,994	11,997	12,004
Michigan	2,779	1,638	3,998	7,243	8,195	9,021	8,734	8,349	8,356	8,261
Wisconsin	905	1,525	3,155	5,584	6,531	7,475	7,554	7,601	7,375	7,356
West North Central	1,472	8,046	19,094	38,354	42,988	49,739	52,180	51,856	51,732	51,605
Minnesota	—	1,092	3,151	5,466	6,943	8,669	9,114	8,787	8,790	8,827
Iowa	655	2,683	5,400	8,356	9,185	9,755	9,808	9,814	9,811	9,760
Missouri	817	2,000	3,965	6,004	6,875	8,083	8,117	8,051	8,022	8,018
North Dakota	—	5 <sup>65</sup>	1,225	1,941	2,731	4,201	5,311	5,277	5,274	5,274
South Dakota	—	(9)	(9)	2,486	2,850	3,948	4,276	4,245	4,245	4,235
Nebraska	—	705	1,963	5,205	5,685	6,067	6,166	6,189	6,201	6,174
Kansas	—	1,501	3,400	8,806	8,719	9,007	9,388	9,493	9,379	9,362
South Central	3,392	4,856	6,343	11,144	13,843	17,074	17,754	17,462	17,422	17,563
Kentucky	534	1,017	1,530	2,746	3,060	3,526	3,929	4,005	4,010	4,049
Tennessee	1,253	1,492	1,843	2,752	3,137	3,816	4,078	4,063	4,059	4,063
Alabama	743	1,157	1,843	3,314	4,226	5,226	5,378	5,254	5,184	5,185
Mississippi	862	990	1,127	2,332	2,920	4,506	4,369	4,170	4,169	4,206
West South Central	680	1,417	5,044	13,782	18,221	31,122	32,972	32,588	32,563	32,684
Louisiana	335	450	652	1,759	2,824	5,554	5,223	4,898	4,828	4,790
Texas	307	711	3,244	8,613	9,886	14,282	16,125	16,198	16,266	16,429
Oklahoma	—	—	289	1,214	2,151	5,950	6,572	6,621	6,581	6,602
Arkansas	38	256	859	2,196	3,360	5,306	5,052	4,901	4,888	4,873
Mountain	—	1,466	5,082	12,676	15,808	22,956	25,170	24,723	24,900	24,942
Montana	—	—	106	2,181	3,010	4,207	5,072	5,037	5,095	5,094
Wyoming	—	—	459	1,512	1,229	1,645	1,931	1,992	1,994	1,988
Colorado	—	157	1,570	4,176	4,587	5,533	5,519	5,077	5,011	5,063
New Mexico	—	—	758	1,324	1,753	3,032	2,972	2,998	2,998	2,998
Arizona	—	—	349	1,097	1,512	2,097	2,478	2,378	2,496	2,496
Utah	—	257	842	1,090	1,547	1,986	2,161	2,189	2,190	2,194
Nevada	—	593	739	925	909	2,277	2,160	2,137	2,207	2,200
Idaho	—	—	206	941	1,261	2,179	2,877	2,915	2,909	2,909
Pacific	23	1,084	2,992	7,667	10,369	14,932	17,248	17,204	17,225	17,183
Washington	—	—	289	1,783	2,914	4,875	5,587	5,559	5,555	5,557
Oregon	—	159	508	1,428	1,724	2,285	3,305	3,357	3,393	3,362
California	23	925	2,195	4,356	5,751	7,772	8,356	8,288	8,277	8,264
Alaska Territory	—	—	—	—	22	390	246	301	790	793
Hawaii Territory	—	—	—	—	—	175	243	252	255	256

<sup>1</sup> Represents mileage operated

<sup>2</sup> Revised total 240,293 not distributed by States.

<sup>3</sup> Totals exclude Alaska and Hawaii.

<sup>4</sup> Included in returns for Maryland.

<sup>5</sup> Figures for Dakota.

<sup>6</sup> For total Dakota see North Dakota.

Source: Interstate Commerce Commission.

## No. 420.—RAILWAY MILEAGE OWNED AND OPERATED

NOTE.—See note to Table 418. Since 1890 the columns correspond to the first and third columns of that table. The exact basis of the data prior to 1890 is not stated. For years 1842 to 1839 and 1916 to date data relate to Dec. 31; for years 1890 to 1915 data relate to June 30.

Year	Owned	Operated	Year	Owned	Operated	Year	Owned	Operated
1842		4,026	1886		136,338	1907	229,951	227,455
1850		9,021	1887		149,214	1908	233,403	230,494
1855		18,374	1888		159,114	1909	236,831	235,402
1860		30,626	1889		161,276	1910	240,233	240,831
1865		35,085	1890	163,537	156,404	1911	243,979	246,238
1870		52,922	1891	168,403	161,575	1912	246,777	249,532
1871		60,301	1892	171,564	162,397	1913	249,777	253,570
1872		66,171	1893	176,461	169,780	1914	252,105	256,547
1873		70,268	1894	178,709	175,091	1915	253,789	257,569
1874		72,385	1895	180,657	177,746	1916	254,037	259,705
1875		74,096	1896	182,777	181,983	1917	253,626	274,705
1876		76,808	1897	184,428	183,284	1918	253,529	258,507
1877		79,082	1898	186,396	184,648	1919	253,152	258,525
1878		81,747	1899	189,295	187,535	1920	252,845	259,941
1879		86,556	1900	193,346	192,556	1921	251,176	258,362
1880		93,262	1901	197,237	195,562	1922	250,413	257,425
1881		103,108	1902	202,472	200,155	1923	250,222	258,084
1882		114,677	1903	207,977	205,314	1924	250,156	258,238
1883		121,422	1904	213,904	212,243	1925	249,393	258,631
1884		125,345	1905	218,101	216,974	1926	249,138	258,815
1885		128,320	1906	224,363	222,340	1927	249,131	259,639

Source: Poor's Manual of Railroads prior to 1890, Interstate Commerce Commission thereafter.

## No. 421.—MILEAGE OPERATED AND EQUIPMENT: CLASS I CARRIERS

NOTE.—Mileage operated includes some duplication due to trackage rights and some mileage in Canada operated by United States companies. For car equipment in detail see Table 425.

Year ended Dec. 31	Mileage operated				Locomotives			Aggregate capacity of freight cars (1,000 tons)
	Road (first track)	Other main tracks	Yard track and sidings	Total track	Number, steam and electric	Tractive power, steam only		
						Aggregate (1,000 lbs )	Average (lbs )	
<b>Total:</b>								
1916	231,674	34,129	98,334	364,137	61,332	2,024,119	33,183	92,280
1920	235,234	36,737	105,408	377,379	64,746	2,340,761	36,865	98,343
1921	234,702	37,454	107,098	379,254	64,949	2,385,470	36,935	98,504
1922	234,976	37,704	109,468	382,143	64,512	2,401,452	37,441	98,847
1923	235,574	38,573	111,708	385,855	65,327	2,544,115	39,177	101,813
1924	235,894	39,735	112,253	387,882	65,358	2,593,173	39,891	104,149
1925	236,840	40,817	113,873	391,530	63,974	2,586,968	40,686	105,570
1926	237,054	41,537	116,353	394,944	62,761	2,611,298	41,886	105,953
1927	238,634	41,926	118,654	399,214	61,344	2,606,171	42,798	105,846
<b>Eastern district:</b>								
1916	59,175	20,879	40,056	120,119	28,179	958,339	34,333	47,185
1921	58,885	23,108	43,031	124,024	29,468	1,118,251	38,313	49,161
1923	59,302	22,404	44,820	126,526	29,479	1,193,235	40,888	49,633
1924	59,283	22,725	44,761	126,769	29,339	1,208,126	41,551	51,166
1925	59,249	22,882	45,054	127,185	28,409	1,193,573	42,408	51,449
1926	59,114	23,157	45,430	127,701	27,583	1,190,510	43,660	51,697
1927	59,135	23,264	45,869	128,268	26,915	1,181,792	44,475	51,897
<b>Southern district:</b>								
1916	42,753	3,940	15,695	62,383	9,754	323,023	33,165	15,633
1921	43,826	4,475	17,379	65,680	10,780	401,280	37,273	17,174
1923	43,894	4,694	18,188	66,776	10,893	428,896	39,435	17,818
1924	43,824	4,891	18,436	67,151	11,089	448,478	40,518	18,428
1925	44,241	5,707	19,199	69,147	11,158	457,579	41,112	18,968
1926	44,727	5,985	20,404	71,116	11,418	484,490	42,551	19,559
1927	45,416	6,075	20,815	72,306	11,229	483,124	43,155	19,424
<b>Western district:</b>								
1916	129,746	9,310	42,583	181,639	23,399	742,757	31,827	29,463
1921	131,991	10,871	46,688	189,550	24,701	865,939	35,155	32,160
1923	132,373	11,475	48,700	192,548	24,955	921,984	37,057	33,567
1924	132,737	12,119	49,056	193,962	24,930	936,574	37,674	34,555
1925	133,359	12,228	49,620	195,207	24,407	935,716	38,448	35,153
1926	133,213	12,395	50,519	196,127	23,760	936,238	39,524	34,897
1927	134,083	12,587	51,970	198,640	23,200	941,255	40,698	34,825

<sup>1</sup> Includes second track, 36,229 miles, third track, 3,129 miles, fourth and other, 2,568 miles.

Source: Interstate Commerce Commission.

# No. 422.—MILEAGE OF ROAD AND TRACKS OPERATED: CLASS I CARRIERS, BY DISTRICTS

District and year ended Dec. 31	Total, all tracks	Road (first main track)	Second main track	Third main track	Fourth and other main tracks	Yard track and sidings	Electrified mileage			
							Total track	Road, (first main track)	Other main tracks	Yard track and sidings
<b>All districts:</b>										
1916.....	1,364, 137	1,231, 674	29, 223	2, 716	2, 190	98, 334	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
1920.....	1,377, 370	1,235, 234	31, 512	2, 936	2, 289	105, 408	3, 132	1, 449	900	783
1925.....	1,391, 539	1,236, 848	35, 200	3, 111	2, 506	113, 874	3, 598	1, 674	972	952
1927.....	1,399, 214	1,238, 634	36, 229	3, 120	2, 568	118, 654	4, 066	1, 854	1, 146	1, 066
<b>Eastern district:</b>										
1916.....	120, 110	59, 175	16, 666	2, 408	1, 805	40, 056	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
1927.....	128, 268	59, 135	18, 524	2, 699	2, 041	45, 869	2, 141	622	888	631
<b>Southern district:</b>										
1916.....	62, 389	42, 753	3, 725	43	173	15, 695	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
1927.....	72, 306	45, 416	5, 627	126	322	20, 815	625	270	176	179
<b>Western district:</b>										
1916.....	181, 638	129, 746	8, 832	265	212	42, 583	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
1927.....	198, 640	134, 083	12, 078	304	205	51, 970	1, 300	962	82	256

<sup>1</sup> Includes 2,097 miles in Canada and 52 miles in Mexico.

<sup>2</sup> Data not available

<sup>3</sup> Includes 1,949 miles in Canada

<sup>4</sup> Includes 20,407 miles of industrial tracks, also 3,087 miles in Canada, consisting of 1,506 miles of road, 502 miles of second main track, 67 miles of industrial tracks, and 612 miles of yard track and sidings

<sup>5</sup> Does not include 43 miles in 1925 and 20 miles in 1927 of electric street railways operated by Boston & Maine R. R.

<sup>6</sup> Includes 45 miles of industrial tracks in 1925 and 39 miles in 1927

<sup>7</sup> Includes 21,403 miles of industrial tracks, also 2,920 miles in Canada consisting of 1,754 miles of road, 501 miles of second main track, 74 miles of industrial tracks, and 591 miles of yard track and sidings

Source Interstate Commerce Commission

# No. 423.—RAILWAY EQUIPMENT INSTALLED AND RETIRED FROM SERVICE: CLASS I CARRIERS

Year ended—	Locomotives		Freight-train cars		Passenger-train cars	
	Number installed	Number retired	Number installed	Number retired	Number installed	Number retired
<b>June 30</b>						
1907.....	3, 774	36	192, 896	1, 541	1, 989	41
1908.....	3, 227	1, 140	171, 556	70, 976	2, 183	1, 630
1909.....	1, 549	1, 333	67, 925	83, 223	1, 786	1, 531
1910.....	3, 073	1, 452	134, 593	75, 652	3, 505	1, 914
1911.....	3, 694	1, 468	125, 532	68, 031	4, 250	1, 701
1912.....	2, 861	1, 858	97, 972	69, 876	3, 060	1, 387
1913.....	4, 381	2, 338	162, 070	96, 825	2, 823	1, 842
1914.....	3, 245	1, 862	150, 813	96, 985	3, 620	1, 854
1915.....	1, 114	1, 507	86, 012	90, 347	2, 664	1, 885
1916.....	1, 475	2, 576	88, 254	109, 996	1, 261	2, 156
<b>Dec 31</b>						
1917.....	2, 148	1, 423	117, 210	62, 253	2, 535	1, 671
1918.....	2, 803	977	65, 249	56, 024	1, 817	1, 051
1919.....	2, 062	999	76, 019	43, 274	435	670
1920.....	1, 017	1, 254	36, 044	75, 197	621	885
1921.....	1, 330	1, 130	63, 406	69, 245	1, 681	929
1922.....	1, 226	1, 682	105, 394	126, 471	1, 328	1, 286
1923.....	4, 360	3, 746	232, 060	213, 789	2, 658	2, 360
1924.....	2, 786	2, 529	156, 572	118, 560	2, 755	2, 295
1925.....	1, 600	2, 873	139, 083	128, 573	3, 230	3, 569
1926.....	1, 882	3, 105	93, 369	103, 152	3, 455	3, 309
1927.....	1, 542	2, 976	73, 254	96, 991	2, 646	3, 612

Source Interstate Commerce Commission.

**No. 424.—RAILWAY EQUIPMENT IN SERVICE, ALL REPORTING COMPANIES**

NOTE—"All reporting companies" include switching and terminal but not circular and unofficial lines. Data for tractive power and capacity of cars exclude switching roads beginning with 1908 and smaller roads during recent years, they would not be materially different if all carriers were included. The large number of cars owned by private car lines is not included.

Year	Locomotives					Freight-train cars <sup>1</sup>			Passen- ger train cars
	Total num- ber	Number	Steam		Elec- tric, num- ber	Total number	Capacity		
			Tractive capacity				Aggre- gate (1,000 tons)	Aver- age (tons)	
			Aggregate (1,000 lbs)	Average (lbs.)					
June 30, 1890	30, 140					918, 491			26, 820
1895	35, 699					1, 196, 119			33, 112
1900	37, 663					1, 365, 531			34, 713
1905	48, 357		1, 128, 771	23, 666		1, 731, 409	53, 255	30 8	40, 713
1910	60, 019		1, 588, 894	27, 282		2, 148, 478	76, 579	35 9	47, 179
1915	66, 502	66, 229	2, 014, 201	31, 546	273	2, 341, 567	92, 238	39 6	55, 810
Dec. 31, 1916	65, 595	65, 263	2, 066, 166	32, 890	342	2, 329, 475	94, 441	40 8	55, 193
	66, 070	65, 699	2, 087, 950	33, 932	371	2, 379, 472	95, 467	41 5	55, 939
	67, 936	67, 503	2, 223, 246	34, 995	373	2, 397, 943	96, 767	41 6	56, 611
	68, 977	68, 592	2, 312, 634	35, 789	385	2, 426, 889	99, 001	41 9	56, 290
	68, 942	68, 554	2, 340, 761	36, 365	388	2, 388, 424	98, 343	42 4	56, 102
	69, 122	68, 733	2, 385, 470	36, 935	389	2, 378, 510	98, 504	42 5	58, 950
	68, 518	68, 121	2, 401, 452	37, 441	397	2, 352, 483	98, 847	43 1	56, 827
	69, 414	69, 005	2, 544, 115	39, 177	409	2, 379, 131	101, 818	43 8	57, 159
	69, 486	69, 114	2, 593, 178	39, 891	372	2, 411, 627	104, 149	44 3	57, 451
	68, 092	67, 713	2, 586, 868	40, 666	379	2, 414, 083	105, 570	44 8	56, 814
	66, 816	66, 381	2, 611, 238	41, 886	435	2, 403, 967	105, 953	45 1	56, 855
	65, 348	64, 843	2, 606, 171	42, 798	467	2, 378, 800	105, 846	45 5	55, 729

<sup>1</sup> Excludes caboose cars.<sup>2</sup> Class I, Class II, and Class III roads.<sup>3</sup> Class I and Class II roads.<sup>4</sup> Class I roads.**No. 425.—CLASSIFICATION OF RAILWAY CARS IN SERVICE**

NOTE—Data relate to June 30 prior to 1916 and Dec. 31 thereafter. Figures for "All operating companies" include switching and terminal companies but not circular and unofficial lines. Cars owned by private car lines, roughly equaling one-tenth of those owned by railway companies, are not included.

	All operating companies					Class I, 1927			
	1910	1915	1920	1925	1927	Total	Eastern district	South-eastern district	West-ern district
Freight cars <sup>1</sup> .....	2, 148, 478	2, 341, 567	2, 388, 424	2, 414, 083	2, 378, 800	2, 324, 789	1, 075, 259	423, 712	825, 828
Box.....	966, 603	1, 041, 695	1, 056, 514	1, 086, 562	1, 075, 398	1, 066, 365	455, 301	169, 062	442, 002
Flat.....	153, 958	146, 343	117, 604	113, 562	109, 996	99, 962	21, 826	22, 803	55, 333
Stock.....	78, 811	86, 326	81, 678	87, 452	84, 224	83, 619	14, 858	8, 161	60, 600
Coal.....	818, 731	910, 637	908, 034	979, 483	964, 980	940, 488	555, 805	209, 884	174, 699
Tank.....	7, 434	10, 165	11, 130	12, 151	11, 578	10, 284	308	22	9, 954
Refrigerator.....	30, 918	52, 446	60, 768	49, 488	44, 907	44, 225	4, 874	6, 230	33, 121
Other.....	78, 666	93, 955	92, 696	85, 385	87, 714	79, 856	22, 287	7, 450	50, 119
Steel <sup>2</sup> .....	(3)	501, 309	630, 150	757, 065	799, 820	799, 820	530, 644	144, 573	124, 603
Steel underframe <sup>3</sup> .....	(3)	676, 176	883, 290	1, 056, 125	1, 086, 982	1, 086, 982	464, 433	190, 920	431, 624
Caboose cars.....	27, 224	28, 965	29, 575	31, 325	31, 064	30, 050	12, 803	5, 829	11, 418
Passenger-train cars.....	47, 179	55, 810	56, 102	56, 814	55, 729	53, 822	26, 820	8, 411	18, 791
Coaches.....	25, 881	30, 135	29, 343	28, 744	27, 696	26, 765	13, 965	4, 085	8, 765
Combination.....	5, 697	8, 847	8, 570	8, 624	8, 521	7, 765	3, 290	1, 346	3, 129
Emigrant.....	97	50	11	7	1	1	1	1	1
Parlor.....	634	651	574	502	468	459	90	70	299
Sleeping.....	490	750	558	377	256	253	7	7	246
Baggage and express.....	11, 524	9, 938	12, 101	13, 174	13, 219	13, 078	6, 751	1, 881	4, 446
Postal.....	(5)	1, 566	1, 243	1, 092	1, 011	1, 007	382	188	437
Other.....	2, 752	3, 873	3, 702	4, 294	4, 557	4, 494	2, 141	884	1, 469
Steel <sup>2</sup> .....	(3)	10, 859	15, 111	21, 190	25, 342	25, 342	14, 173	3, 314	7, 855
Steel underframe <sup>3</sup> .....	(3)	5, 160	6, 573	9, 369	9, 677	9, 677	5, 409	1, 521	2, 747
Company service equipment.....	80, 891	98, 752	108, 485	112, 592	112, 942	109, 298	36, 295	19, 121	53, 882
Motor cars and trailers <sup>2</sup> .....	(3)	(3)	(3)	2, 479	3, 395	3, 395	2, 396	361	638

<sup>1</sup> Excludes caboose cars; total for 1910 includes 13,357 unclassified cars.<sup>2</sup> Data represent Class I roads only.<sup>3</sup> Data not available.<sup>4</sup> Includes 104 unclassified cars.<sup>5</sup> Postal cars included with baggage and express.

Source of Tables 424 and 425. Interstate Commerce Commission.

## No. 426.—FREIGHT-CAR PERFORMANCE AND EQUIPMENT CONDITION

NOTE.—Data relate to Class I carriers. Yearly averages for 1920, 1921, 1922, and 1923 are as follows. Freight car-miles per car day 1920, 25.1, 1921, 22.4, 1922, 23.5, 1923, 27.8, percentage of unserviceable freight cars, 1920, 7.0, 1921, 13.1, 1922, 12.8, 1923, 8.0, percentage of unserviceable locomotives, 1920, 24.5, 1921, 23.7, 1922, 24.9, 1923, 21.4

Month	Freight car-miles per car day					Percentage of unserviceable freight cars					Percentage of unserviceable locomotives				
	1924	1925	1926	1927	1928	1924	1925	1926	1927	1928	1924	1925	1926	1927	1928
Yearly average.....	26.8	28.5	30.4	30.3	31.3	7.8	7.7	6.5	5.9	6.2	18.7	17.8	16.6	16.2	16.3
January.....	24.9	26.5	27.6	28.5	27.0	6.7	8.0	6.6	5.6	5.8	18.8	18.8	17.1	16.6	16.0
February.....	27.4	26.9	28.6	30.4	29.8	7.0	7.8	6.7	5.7	5.9	19.0	18.8	17.3	16.8	16.7
March.....	27.2	26.4	29.2	30.9	31.0	7.1	7.8	6.7	5.6	6.0	19.2	18.9	17.6	17.0	16.6
April.....	25.5	26.6	29.0	29.5	29.9	7.4	7.9	6.7	5.6	6.2	19.1	18.5	17.5	16.9	16.7
May.....	25.8	27.4	29.8	30.2	31.2	7.7	8.1	6.8	5.9	6.4	18.8	18.0	17.0	16.6	16.5
June.....	25.1	27.5	30.1	30.0	30.4	8.0	8.3	6.9	6.1	6.3	18.6	17.7	16.6	16.4	16.1
July.....	25.5	27.8	30.5	29.1	30.4	8.4	8.2	7.0	6.2	6.4	18.5	17.3	16.1	15.8	16.1
August.....	26.6	29.6	31.5	30.9	32.1	8.6	8.1	7.0	6.2	6.5	18.2	17.1	16.1	15.8	16.1
September.....	28.8	30.8	32.7	32.6	33.9	8.7	7.8	6.6	6.0	6.5	18.3	17.1	15.8	15.3	16.0
October.....	30.6	32.3	34.3	34.7	36.2	8.2	7.1	6.1	5.9	6.2	18.4	17.2	15.8	15.5	16.2
November.....	28.4	31.0	32.1	32.3	33.3	7.8	6.9	5.8	5.9	6.1	18.5	17.2	16.3	16.7	16.2
December.....	25.6	28.0	29.3	26.9	29.6	7.9	6.8	5.5	5.8	5.9	18.4	16.9	16.0	15.6	18.8

Source Bureau of Railway Economics

## No. 427.—RECEIVERSHIPS OF RAILWAYS

Year (calendar, except as noted)	Under receivership end of year <sup>1</sup>		Placed under receivership		Year (calendar, except as noted)	Under receivership end of year <sup>1</sup>		Placed under receivership	
	Number	Mileage operated	Number	Stocks and bonds (1,000 dollars)		Number	Mileage operated	Number	Stocks and bonds (1,000 dollars)
1881.....			5	110	1906.....	34	3,971	6	204
1882.....			12	912	1907.....	29	3,926	7	317
1883.....			11	1,996	1908.....	52	9,529	24	8,009
1884.....			37	11,038	1909.....	44	10,530	5	859
1885.....			44	8,836	1910.....	39	5,257	7	735
1886.....			13	1,799	1911.....	39	4,598	5	2,606
1887.....			9	1,046	1912.....	44	9,786	13	3,784
1888.....			22	3,270	1913.....	49	16,286	17	10,020
1889.....			22	3,808	1914.....	68	18,608	22	4,222
1890.....			26	2,963	1915.....	85	30,223	12	20,143
1891.....			26	2,159	1916.....	80	34,804	9	4,439
1892.....			38	10,508	1917.....	82	17,376	19	2,496
1893.....			74	29,340	1918.....	74	19,208	8	3,519
1894.....	192	40,819	38	7,025	1919.....	65	16,590	7	244
1895.....	169	37,856	31	4,089	1920.....	61	16,290	10	541
1896.....	151	30,475	34	5,441	1921.....	68	13,512	14	1,744
1897.....	128	18,862	13	1,537	1922.....	64	15,259	12	4,330
1898.....	94	12,745	18	2,069	1923.....	64	12,623	10	2,218
1899.....	71	9,853	10	1,019	1924.....	61	8,105	11	920
1900.....	52	4,178	16	1,165	1925.....	53	18,687	6	11,368
1901.....	45	2,497	4	73	1926.....	45	17,632	6	88
1902.....	27	1,475	5	278	1927.....	40	16,752	6	924
1903.....	27	1,185	9	229	1928.....	( <sup>2</sup> )	( <sup>2</sup> )	1	19
1904.....	28	1,323	8	744					
1905.....	26	796	10	3,593					

<sup>1</sup> Data relate to June 30 prior to 1916, Dec. 31 thereafter

<sup>2</sup> Data not available.

Sources: First two columns, Interstate Commerce Commission, others, The Railway Age, Chicago.



No. 428.—EMPLOYEES OF RAILWAYS: NUMBER AND COMPENSATION<sup>1</sup>

Year ended—	All operating carriers				Year ended—	All operating carriers			
	Average number of employees	Total yearly compensation (1,000 dollars)	Average compensation			Average number of employees	Total yearly compensation (1,000 dollars)	Average compensation	
			Per hour <sup>1</sup>	Per year				Per hour <sup>2</sup>	Per year
June 30					June 30				
1890 -----	749,801				1908 -----	1,436,275	1,035,438		\$721
1895 -----	785,034	445,508		\$568	1909 -----	1,502,823	1,088,324		672
1900 -----	1,017,653	577,265		567	1910 -----	1,699,420	1,143,725		678
1901 -----	1,071,169	610,714		570	1911 -----	1,669,809	1,208,466		724
1902 -----	1,189,315	676,029		568	1912 -----	1,716,380	1,252,348		730
1903 -----	1,312,537	757,321		577	1913 -----	1,815,239	1,373,831		757
1904 -----	1,296,121	817,599		631	1914 -----	1,710,296	1,381,117		808
1905 -----	1,382,196	839,945		608	1916 -----	1,654,075	1,403,968	\$0.266	840
1906 -----	1,521,355	900,802		592	Dec 31				
1907 -----	1,672,074	1,072,386		641	1916 -----	1,700,814	1,506,961	.275	886

Year ended Dec 31—	All operating carriers Average number of employees	Class I carriers					
		Average number of employees	Total hours (thousands)	Total yearly compensation (1,000 dollars)	Average hours per employee	Average compensation	
						Per hour <sup>2</sup>	Per year
1916-----	1,700,814	1,647,097	5,189,791	1,468,576	3,150.9	\$0.283	\$692
1917-----	(3)	1,732,876	5,437,977	1,739,482	3,138.1	.320	1,004
1918 <sup>4</sup> -----	(3)	1,841,575	5,701,417	2,613,813	3,096.9	.458	1,419
1919 <sup>4</sup> -----	(3)	1,913,422	5,032,493	2,843,128	2,630.1	.565	1,436
1920-----	(4)	2,022,832	5,446,741	3,681,891	2,692.6	.676	1,820
1921-----	(8)	1,659,513	4,147,819	2,765,218	2,499.1	.667	1,666
1922-----	1,669,640	1,626,834	4,311,097	2,640,817	2,650.0	.613	1,623
1923-----	1,902,222	1,857,674	4,928,651	3,004,072	2,653.1	.610	1,617
1924-----	1,795,493	1,751,362	4,534,879	2,825,775	2,589.3	.623	1,613
1925-----	1,786,411	1,744,311	4,531,361	2,860,600	2,597.8	.631	1,640
1926-----	1,821,804	1,779,275	4,671,736	2,626,114	2,625.6	.631	1,656
1927-----	1,775,549	1,735,105	4,519,281	2,910,183	2,604.6	.644	1,677
1928-----	1,694,896	1,656,289	4,310,541	2,818,749	2,602.5	.654	1,702

<sup>1</sup> Data exclude switching and terminal companies beginning 1910. Class III roads are excluded in 1913. Exclusion of the latter has practically no effect on the comparability of the figures. Information for 1915 is incomplete, as 20 of the larger railways did not report, and is not shown.

<sup>2</sup> Calculated for all classes of employees, including those not paid on an hourly basis.

<sup>3</sup> Data not available.

<sup>4</sup> Data cover Federal reports, reports of companies not under Federal control, and corporate reports.

Source: Interstate Commerce Commission.

## No. 429.—EMPLOYEES AND THEIR COMPENSATION: CLASS I CARRIERS

NOTE.—Data relate to years ended Dec 31. Class I switching and terminal companies are included. Average compensation in fifth and sixth columns is per day where so indicated in the footnote or stub. Data shown for principal occupations only. Data for occupations not shown included in group totals.

Occupation	Average number of employees		Total compensation (1,000 dollars)		Average per hour, straight time (dollars)		Average per month, total compensation (dollars)	
	1927	1928	1927	1928	1927	1928	1927	1928
All employees, all districts-----	1,760,998	1,690,187	2,953,211	2,862,100				
Daily basis-----	125,038	123,074	333,274	333,535	8.15	8.29	222	226
Hourly basis-----	1,635,960	1,567,113	2,619,937	2,528,515	.698	.612	193	156
Eastern district-----	766,769	727,066	1,363,302	1,307,655				
Daily basis-----	60,837	59,367	155,859	155,375	7.77	7.94	213	218
Hourly basis-----	705,932	667,699	1,207,443	1,152,280	.641	.654	143	144
Southern district-----	340,681	314,680	519,737	486,544				
Daily basis-----	20,312	19,717	55,926	55,099	8.65	8.70	234	236
Hourly basis-----	320,369	294,963	463,811	430,845	.651	.666	120	122
Western district-----	653,548	638,441	1,070,172	1,067,901				
Daily basis-----	43,889	43,990	120,489	122,511	8.44	8.57	229	232
Hourly basis-----	609,659	594,451	949,683	945,390	.674	.691	190	153

## No. 429.—EMPLOYEES AND THEIR COMPENSATION· CLASS I CARRIERS—Con.

Occupation	Average number of employees		Total compensation (1,000 dollars)		Average per hour, straight time (dollars)		Average per month, total compensation (dollars)	
	1927	1928	1927	1928	1927	1928	1927	1928
<b>Executives, officials, and staff assistants</b> .....	17,008	16,890	93,008	93,976				
Daily basis.....	17,006	16,890	93,006	93,976	17 23	17 53	456	464
Executives, general officers, and assistants.....	7,519	7,570	54,255	55,427	123 37	123 69	601	610
Division officers and assistants.....	9,487	9,320	38,751	38,549	112 57	112 73	340	345
<b>Professional, clerical, and general</b> .....	280,973	271,388	473,890	470,022				
Daily basis.....	65,473	63,171	121,809	123,473	7 29	7 44	190	194
Hourly basis.....	227,500	218,217	352,081	346,549	.604	.680	129	132
Supervisory clerks (major departments).....	5,056	4,984	14,755	14,847	1 9 36	1 9 56	243	248
Chief clerks (minor departments).....	13,165	12,937	29,937	29,976	1 7 19	1 7 33	189	193
Clerks.....	103,200	155,460	260,482	255,458	.625	.644	133	137
Mechanical device operators (office).....	8,318	8,097	11,188	11,122	.550	.562	112	114
Stenographers and typists.....	21,589	20,979	31,228	31,074	.593	.608	121	123
Telephone switchboard operators and office assistants.....	5,192	5,029	4,922	4,865	.387	.394	79	81
Messengers and office boys.....	6,512	6,261	4,645	4,529	1 2 26	1 2 28	59	60
Lieutenants and sergeants of police.....	2,499	2,406	5,214	5,078	1 5 97	1 6 07	174	176
Patrolmen.....	5,610	5,282	10,102	9,643	.553	.564	150	152
Traffic, advertising, and development agents.....	7,236	7,526	19,286	20,242	1 8 66	1 8 77	222	224
Janitors and cleaners.....	7,862	7,678	7,498	7,352	.370	.373	79	80
<b>Maintenance of way and structures</b> .....	421,635	400,198	470,696	449,344				
Daily basis.....	6,081	5,051	14,825	14,980	9 19	9 25	246	247
Hourly basis.....	416,454	395,147	455,771	434,364	.435	.439	91	92
Roadmasters and general foremen.....	3,408	3,393	10,246	10,285	1 9 39	1 9 45	251	253
Bridge and building gang foremen (skilled).....	5,545	5,438	11,469	11,304	.814	.823	172	173
Bridge and building carpenters.....	22,593	21,756	33,952	32,811	.614	.622	125	126
Bridge and building painters.....	2,979	2,746	4,356	4,031	.622	.626	122	122
Skilled trades helpers.....	10,651	10,277	12,787	12,355	.494	.499	100	100
Pumping equipment operators.....	5,066	4,625	5,167	4,740	.338	.339	85	85
Gang foremen (extra gang, work train, bridge, and building and signal and telegraph laborers).....	5,157	4,755	9,038	8,380	.651	.659	146	147
Gang or section foremen.....	40,430	40,038	62,527	62,602	.602	.613	129	130
Laborers (extra gang and work train).....	70,147	62,145	65,329	57,931	.364	.361	78	78
Track and roadway section laborers.....	215,932	207,174	190,025	181,266	.355	.355	73	73
Maintenance of way laborers (not track and roadway).....	8,462	8,053	7,820	7,478	.374	.379	77	77
General foremen and supervising inspectors (signal, telegraph, etc.).....	560	551	1,714	1,712	1 9 57	1 9 66	255	259
Gang foremen (signal and telegraph, skilled trades).....	1,594	1,475	3,841	3,585	.927	.940	201	203
Signalmen and signal maintainers.....	9,445	9,169	18,545	18,161	.765	.774	164	165
Assistant signalmen and signal maintainers.....	3,568	3,198	5,386	4,944	.610	.628	126	129
Signalmen and signal maintainer helpers.....	4,057	3,670	5,120	4,689	.515	.521	105	106
<b>Maintenance of equipment and stores</b> .....	490,730	461,285	777,953	734,359				
Daily basis.....	16,496	15,923	49,589	47,909	9 03	9 02	250	251
Hourly basis.....	474,234	445,362	728,364	686,450	.612	.614	128	128
General foremen.....	1,445	1,426	5,277	5,239	10 85	10 88	304	306
Assistant general and department foremen.....	11,101	10,703	34,839	33,690	1 9 30	1 9 25	262	262
Gang foremen and leaders, (skilled).....	11,059	10,337	29,468	27,729	.938	.936	222	224
Blacksmiths.....	8,451	7,864	15,541	14,461	.801	.802	153	153
Boiler makers.....	18,314	16,838	35,485	32,512	.794	.795	161	161
Carmen.....	105,119	99,912	188,704	180,056	.721	.723	150	150

1 Daily basis

## No. 429.—EMPLOYEES AND THEIR COMPENSATION: CLASS I CARRIERS—Con.

Occupation	Average number of employees		Total compensation (1,000 dollars)		Average per hour, straight time (dollars)		Average per month, total compensation (dollars)	
	1927	1928	1927	1928	1927	1928	1927	1928
<b>Maintenance of equipment, etc.—</b>								
Continued								
Electrical workers.....	10, 515	10, 331	20, 666	20, 315	0.749	0.754	164	164
Machinists.....	58, 792	55, 792	111, 874	105, 945	.781	.780	159	158
Sheet-metal workers.....	11, 418	10, 654	21, 660	20, 682	.781	.781	158	157
Skilled trades helpers.....	108, 050	101, 122	145, 260	136, 356	.545	.547	112	112
Helper apprentices.....	6, 394	5, 405	8, 553	7, 251	.582	.586	111	112
Regular apprentices.....	12, 381	10, 975	11, 906	10, 385	.429	.424	80	79
Gang foremen laborers (shops, engine houses, power plants, stores).....	4, 027	3, 850	6, 574	6, 301	.600	.605	136	136
Coach cleaners.....	12, 667	12, 189	14, 598	14, 135	.410	.413	96	97
Laborers.....	97, 545	90, 748	102, 108	94, 879	.404	.405	87	87
Stationary engineers and firemen.....	7, 800	7, 467	13, 412	12, 882	.589	.593	143	144
<b>Transportation (other than train service, engine, and yard)</b>	<b>205, 028</b>	<b>197, 467</b>	<b>304, 838</b>	<b>298, 472</b>				
Daily basis.....	25, 961	25, 269	31, 774	31, 151	5.45	5.48	102	108
Hourly basis.....	179, 065	172, 198	273, 063	267, 321	.560	.571	127	129
Train dispatchers and directors	5, 388	5, 291	17, 667	17, 683	1.207	1.232	273	279
Station agents—								
Nontelegraphers—								
Supervisory—major stations	2, 513	2, 474	7, 679	7, 638	19.33	19.45	255	257
Supervisory—smaller stations.....	5, 376	5, 234	11, 445	11, 422	.791	.815	177	182
Nonsupervisory—smaller stations.....	3, 428	3, 299	4, 260	4, 124	.481	.491	104	104
Telegraphers and telephoners.....	19, 077	18, 858	33, 668	33, 745	.638	.647	147	149
Clerks—telegraphers and telephoners.....	13, 614	13, 340	23, 945	23, 997	.625	.641	147	150
Telegraphers, telephoners, and towmen.....	24, 679	23, 398	45, 284	43, 597	.652	.668	153	155
Baggage agents and assistants.....	767	721	1, 305	1, 243	.580	.591	142	144
Baggage, parcel-room, and station attendants.....	9, 171	8, 660	11, 513	11, 110	.454	.468	105	107
Gang foremen (freight station, warehouse, grain elevator, and dock labor).....	3, 627	3, 521	6, 297	6, 242	.652	.666	145	148
Callers, loaders, scalers, sealers, and perishable-freight inspectors.....	15, 513	14, 872	19, 768	19, 235	.520	.528	106	108
Truckers.....	37, 063	34, 270	41, 653	39, 405	.452	.462	94	96
Laborers.....	6, 033	6, 343	7, 053	7, 233	.430	.424	97	95
Crossing and bridge flagmen and gatemen.....	21, 891	21, 240	20, 226	19, 607	12.56	12.57	77	77
<b>Transportation (yard masters, switch tenders, and hostlers)</b>	<b>23, 408</b>	<b>22, 142</b>	<b>53, 875</b>	<b>52, 237</b>				
Daily basis.....	7, 020	6, 770	22, 371	22, 095	8.73	8.91	266	272
Hourly basis.....	16, 389	15, 572	31, 504	30, 142	.670	.688	160	163
Yardmasters and assistants.....	7, 020	6, 770	22, 371	22, 095	18.73	18.91	266	272
Switch tenders.....	5, 020	5, 327	10, 039	9, 600	.637	.644	149	150
Hostlers.....	8, 907	8, 317	18, 151	17, 382	.716	.730	170	174
<b>Transportation (train and engine service)</b>	<b>322, 320</b>	<b>310, 817</b>	<b>778, 955</b>	<b>763, 689</b>				
Hourly basis.....	322, 320	310, 817	778, 955	763, 689	.812	.831	201	206
Road passenger conductors.....	10, 392	10, 094	31, 916	31, 222	.926	.932	256	258
Road freight conductors.....	24, 821	23, 925	70, 042	66, 733	.835	.838	235	232
Road passenger baggage men.....	5, 712	5, 548	13, 424	13, 127	.691	.700	196	197
Road passenger brakemen and flagmen.....	13, 938	13, 402	28, 886	27, 790	.645	.650	173	173
Road freight brakemen and flagmen.....	59, 384	56, 763	125, 251	118, 893	.663	.665	176	175
Yard conductors and yard foremen.....	21, 437	21, 020	53, 537	53, 320	.883	.896	208	211
Yard brakemen and yard helpers.....	53, 653	51, 680	114, 108	112, 228	.813	.827	177	181
Road passenger engineers and motormen.....	12, 971	12, 569	41, 916	42, 595	1.193	1.233	269	282
Road freight engineers and motormen.....	30, 521	29, 275	96, 132	95, 318	.977	1.021	262	271
Yard engineers and motormen.....	21, 562	21, 075	53, 682	54, 744	.889	.928	207	216
Road passenger firemen and helpers.....	12, 254	11, 732	30, 487	30, 056	.944	.978	207	213
Road freight firemen and helpers.....	32, 315	30, 962	73, 971	72, 076	.754	.773	191	194
Yard firemen and helpers.....	22, 100	21, 492	42, 344	42, 268	.708	.724	160	164

<sup>1</sup> Daily basis.

Source: Interstate Commerce Commission.

44847°—S A 1929—27

## No. 430.—CAPITALIZATION OF RAILROADS: ALL REPORTING COMPANIES

NOTE.—All amounts except "per mile of road" in millions of dollars. Switching and terminal companies excluded beginning with 1908, their total capitalization in 1927 was \$692,283,196. Figures include both operating and nonoperating railways. The gross figures include considerable amounts of securities held by the companies issuing them as well as larger amounts held by other railway companies.

Year	Total capitalization				Held by railroads		Net capitalization				
	Total	Common stock	Preferred stock	Funded debt	Stock	Funded debt	Total	Per mile of road (dollars)	Stock	Funded debt	Funded debt, per cent of total
June 30, 1890.....	8,984	3,803	606	4,575	964	443	7,577	-----	3,445	4,132	54.5
1895.....	10,347	4,202	760	5,385	1,052	396	8,900	-----	3,910	4,989	56.1
1900.....	11,491	4,522	1,323	5,645	1,470	473	9,548	-----	4,375	5,172	54.2
1905.....	13,805	5,181	1,374	7,251	2,070	568	11,167	-----	4,485	6,683	59.8
1910.....	18,417	6,710	1,403	10,303	2,555	1,486	14,376	62,819	5,559	8,817	61.3
Dec. 31, 1916.....	21,049	7,594	1,455	12,000	2,633	2,084	16,333	66,591	6,416	9,917	60.7
1917.....	21,249	7,455	1,848	11,947	2,720	2,128	16,402	66,699	6,583	9,819	59.9
1918.....	20,785	7,249	1,806	11,730	2,323	2,008	16,454	66,893	6,732	9,722	59.1
1919.....	20,950	7,193	1,898	11,859	2,314	2,086	16,550	67,170	6,777	9,773	59.1
1920.....	21,891	7,216	1,898	12,778	2,407	2,490	16,994	68,787	6,707	10,287	60.5
1921.....	22,292	7,275	1,800	13,216	2,402	2,807	17,083	69,816	6,673	10,409	60.9
1922.....	22,290	7,307	1,834	13,149	2,390	2,621	17,280	70,999	6,751	10,528	60.9
1923.....	22,539	7,398	1,832	13,559	2,402	2,626	17,510	73,417	6,847	10,963	61.6
1924.....	23,636	7,639	1,955	14,162	2,668	2,766	18,202	75,322	6,806	11,396	62.6
1925.....	23,644	7,602	1,937	14,105	2,654	2,800	18,190	74,460	6,885	11,305	62.1
1926.....	23,677	7,560	1,925	14,192	2,654	2,789	18,234	74,398	6,831	11,403	62.5
1927.....	23,615	7,683	1,980	13,952	2,907	2,571	18,137	73,984	6,756	11,381	62.7

## No. 431.—RAILWAY STOCK OUTSTANDING, DIVIDENDS, AND INTEREST

NOTE.—Data relate to years ending June 30 prior to 1916 and to calendar years thereafter. Nonoperating as well as operating roads are included. Switching and terminal roads are excluded since 1908. Dividend figures throughout cover all classes of roads but interest figure for 1913 excludes the unimportant Class III roads. The amount of stock shown in the first column is exclusive of stock held by the issuing company but includes that held by other railway companies.

Year or yearly average	Stock			Dividends			Interest accrued on funded debt (1,000 dollars)
	Actually outstanding (1,000 dollars)	Paying dividends (1,000 dollars)	Per cent paying dividends	Amount declared (1,000 dollars)	Per cent on stock paying dividends	Per cent on all stock outstanding	
1891-1895.....	-----	1,737,048	-----	94,093	5.42	-----	243,013
1896-1900.....	-----	1,977,832	-----	104,295	5.27	-----	249,548
1901.....	-----	2,977,575	51.27	156,736	5.26	2.70	262,095
1902.....	-----	3,337,645	55.40	185,392	5.55	3.08	274,422
1903.....	-----	3,450,738	56.06	196,728	5.70	3.20	283,953
1904.....	-----	3,643,427	57.47	221,941	6.09	3.50	297,675
1905.....	-----	4,119,087	62.84	237,964	5.78	3.63	310,632
1906.....	-----	4,526,959	66.54	272,796	6.03	4.01	322,556
1907.....	-----	4,948,756	67.27	308,089	6.23	4.19	344,243
1908.....	7,300,739	4,843,371	65.69	390,695	8.07	5.30	368,293
1909.....	7,612,411	4,920,174	64.01	321,072	6.53	4.18	382,675
1910.....	8,010,730	5,412,578	66.71	405,771	7.50	5.00	399,582
1911.....	8,363,276	5,730,250	67.65	460,195	8.03	5.42	410,327
1912.....	8,552,447	5,581,289	64.73	400,315	7.17	4.64	429,027
1913.....	8,599,993	5,780,982	66.14	369,078	6.37	4.22	434,753
1914.....	8,654,215	5,667,078	64.39	451,653	7.97	5.13	442,595
1915.....	8,635,319	5,219,847	60.45	328,478	6.29	3.80	464,186
1916.....	8,755,404	5,430,123	62.02	366,561	6.75	4.19	481,426
1917.....	9,003,797	5,610,774	62.32	381,852	6.81	4.24	474,123
1918.....	8,846,717	5,138,851	58.09	339,186	6.60	3.83	468,286
1919.....	8,883,125	5,298,321	59.64	335,242	6.33	3.77	470,075
1920.....	8,843,100	5,075,040	57.30	331,103	6.52	3.74	500,354
1921.....	8,889,921	5,059,844	56.92	455,482	9.02	5.13	529,398
1922.....	8,931,637	5,321,347	59.38	338,806	6.37	3.78	535,594
1923.....	9,092,933	5,646,076	62.09	411,882	7.30	4.53	551,705
1924.....	9,300,054	6,042,268	64.97	385,130	6.37	4.14	588,301
1925.....	9,413,101	6,278,532	66.70	409,645	6.52	4.35	583,876
1926.....	9,365,272	6,473,280	69.12	473,683	7.32	5.06	581,709
1927.....	9,539,491	6,701,427	70.25	567,281	8.47	5.95	583,452

Source of Tables 430 and 431. Interstate Commerce Commission.

## No. 430.—CAPITALIZATION OF RAILROADS: ALL REPORTING COMPANIES

NOTE.—All amounts except "per mile of road" in millions of dollars. Switching and terminal companies excluded beginning with 1908, their total capitalization in 1927 was \$692,283,196. Figures include both operating and nonoperating railways. The gross figures include considerable amounts of securities held by the companies issuing them as well as larger amounts held by other railway companies.

Year	Total capitalization				Held by railroads		Net capitalization				
	Total	Common stock	Preferred stock	Funded debt	Stock	Funded debt	Total	Per mile of road (dollars)	Stock	Funded debt	Funded debt, per cent of total
June 30, 1890.....	8,984	3,803	606	4,575	964	443	7,577	-----	3,445	4,132	54.5
1895.....	10,347	4,202	760	5,385	1,052	396	8,900	-----	3,910	4,989	56.1
1900.....	11,491	4,522	1,323	5,645	1,470	473	9,548	-----	4,375	5,172	54.2
1905.....	13,805	5,181	1,374	7,251	2,070	568	11,167	-----	4,485	6,683	59.8
1910.....	18,417	6,710	1,403	10,303	2,555	1,486	14,376	62,819	5,559	8,817	61.3
Dec. 31, 1916.....	21,049	7,594	1,455	12,000	2,633	2,084	16,333	66,591	6,416	9,917	60.7
1917.....	21,249	7,455	1,848	11,947	2,720	2,128	16,402	66,699	6,583	9,819	59.9
1918.....	20,785	7,249	1,806	11,730	2,323	2,008	16,454	66,893	6,732	9,722	59.1
1919.....	20,950	7,193	1,898	11,859	2,314	2,086	16,550	67,170	6,777	9,773	59.1
1920.....	21,891	7,216	1,898	12,778	2,407	2,490	16,994	68,787	6,707	10,287	60.5
1921.....	22,292	7,275	1,800	13,216	2,402	2,807	17,083	69,816	6,673	10,409	60.9
1922.....	22,290	7,307	1,834	13,149	2,390	2,621	17,280	70,999	6,751	10,528	60.9
1923.....	22,539	7,398	1,832	13,559	2,402	2,626	17,510	73,417	6,847	10,963	61.6
1924.....	23,636	7,639	1,955	14,162	2,668	2,766	18,202	75,322	6,806	11,396	62.6
1925.....	23,644	7,602	1,937	14,105	2,654	2,800	18,190	74,460	6,885	11,305	62.1
1926.....	23,677	7,560	1,925	14,192	2,654	2,789	18,234	74,398	6,831	11,403	62.5
1927.....	23,615	7,683	1,980	13,952	2,907	2,571	18,137	73,984	6,756	11,381	62.7

## No. 431.—RAILWAY STOCK OUTSTANDING, DIVIDENDS, AND INTEREST

NOTE.—Data relate to years ending June 30 prior to 1916 and to calendar years thereafter. Nonoperating as well as operating roads are included. Switching and terminal roads are excluded since 1908. Dividend figures throughout cover all classes of roads but interest figure for 1913 excludes the unimportant Class III roads. The amount of stock shown in the first column is exclusive of stock held by the issuing company but includes that held by other railway companies.

Year or yearly average	Stock			Dividends			Interest accrued on funded debt (1,000 dollars)
	Actually outstanding (1,000 dollars)	Paying dividends (1,000 dollars)	Per cent paying dividends	Amount declared (1,000 dollars)	Per cent on stock paying dividends	Per cent on all stock outstanding	
1891-1895.....	-----	1,737,048	-----	94,093	5.42	-----	243,013
1896-1900.....	-----	1,977,832	-----	104,295	5.27	-----	249,548
1901.....	-----	2,977,575	51.27	156,736	5.26	2.70	262,095
1902.....	-----	3,337,645	55.40	185,392	5.55	3.08	274,422
1903.....	-----	3,450,738	56.06	196,728	5.70	3.20	283,953
1904.....	-----	3,643,427	57.47	221,941	6.09	3.50	297,675
1905.....	-----	4,119,087	62.84	237,964	5.78	3.63	310,632
1906.....	-----	4,526,959	66.54	272,796	6.03	4.01	322,556
1907.....	-----	4,948,756	67.27	308,089	6.23	4.19	344,243
1908.....	7,300,739	4,843,371	65.69	390,695	8.07	5.30	368,293
1909.....	7,612,411	4,920,174	64.01	321,072	6.53	4.18	382,675
1910.....	8,010,730	5,412,578	66.71	405,771	7.50	5.00	399,582
1911.....	8,363,276	5,730,250	67.65	460,195	8.03	5.42	410,327
1912.....	8,552,447	5,581,289	64.73	400,315	7.17	4.64	429,027
1913.....	8,599,993	5,780,982	66.14	369,078	6.37	4.22	434,753
1914.....	8,654,215	5,667,078	64.39	451,653	7.97	5.13	442,595
1915.....	8,635,319	5,219,847	60.45	328,478	6.29	3.80	464,186
1916.....	8,755,404	5,430,123	62.02	366,561	6.75	4.19	481,426
1917.....	9,003,797	5,610,774	62.32	381,852	6.81	4.24	474,123
1918.....	8,846,717	5,138,851	58.09	339,186	6.60	3.83	468,286
1919.....	8,883,125	5,298,321	59.64	335,242	6.33	3.77	470,075
1920.....	8,843,100	5,075,040	57.30	331,103	6.52	3.74	500,354
1921.....	8,889,921	5,059,844	56.92	456,482	9.02	5.13	529,398
1922.....	8,931,637	5,321,347	59.38	338,806	6.37	3.78	535,594
1923.....	9,092,933	5,646,076	62.09	411,882	7.30	4.53	551,705
1924.....	9,300,054	6,042,268	64.97	385,130	6.37	4.14	588,301
1925.....	9,413,101	6,278,532	66.70	409,645	6.52	4.35	583,876
1926.....	9,365,272	6,473,280	69.12	473,683	7.32	5.06	581,709
1927.....	9,539,491	6,701,427	70.25	567,281	8.47	5.95	583,452

Source of Tables 430 and 431. Interstate Commerce Commission.

## No. 434.—FREIGHT TRAFFIC: TRAIN AND CAR MOVEMENT

NOTE.—Figures prior to 1916 relate to years ended June 30, thereafter to calendar years. Switching and terminal roads excluded beginning with 1908. The tonnage "per loaded car" for "All roads" is based on revenue tonnage only; and for "Class I roads" on revenue and nonrevenue tonnage, with exception of the "District" figures for 1916-1920. Tons are of 2,000 pounds

Class and year or yearly average	Train-miles (thousands)	Car-miles (thousands)		Tons of revenue freight		Freight revenue		Average miles per car per day
		Loaded (revenue and non-revenue)	Empty	Per train	Per loaded car	Per train-mile (dollars)	Per loaded car-mile (cents)	
<b>All roads:</b>								
1891-1895.....	467,299	-----	-----	184	-----	1.62	-----	-----
1896-1900.....	489,723	-----	-----	229	-----	1.76	-----	-----
1901-1905.....	519,896	9,631,628	4,320,390	304	17.4	2.35	-----	-----
1906-1910.....	603,105	11,754,421	5,234,008	359	19.5	2.72	-----	-----
1911-1915.....	608,512	13,369,203	6,169,216	432	20.7	3.19	-----	-----
1916-1920.....	617,430	15,444,150	6,904,625	604	25.3	15.30	-----	-----
1921-1925.....	577,844	15,243,111	8,096,532	621	24.6	17.28	-----	-----
1901.....	491,942	8,889,233	3,921,979	281	16.6	2.13	-----	-----
1902.....	499,711	9,296,427	4,030,087	296	16.9	2.27	-----	-----
1903.....	526,812	9,844,158	4,346,790	311	17.6	2.44	-----	-----
1904.....	535,991	9,849,577	4,501,805	308	17.7	2.43	-----	-----
1905.....	546,424	10,278,745	4,801,290	322	18.1	2.50	-----	-----
1906.....	594,006	11,410,599	5,176,955	344	18.9	2.61	-----	-----
1907.....	629,996	12,021,326	5,098,572	357	19.7	2.74	-----	-----
1908.....	587,218	11,128,231	5,153,181	352	19.6	2.65	-----	-----
1909.....	658,855	11,360,655	5,242,995	363	19.3	2.76	-----	-----
1910.....	635,451	12,851,295	5,498,337	380	19.8	2.86	-----	-----
1911.....	626,496	12,859,386	5,832,515	383	19.7	2.90	-----	-----
1912.....	612,345	13,088,332	5,767,144	407	20.2	3.02	-----	-----
1913.....	643,841	14,271,944	6,120,861	445	21.1	3.24	-----	-----
1914.....	607,872	13,686,818	6,531,274	447	21.1	3.31	-----	-----
1915.....	552,004	12,939,535	6,594,287	476	21.1	3.47	15.5	-----
1916.....	632,304	15,855,103	6,779,225	552	22.8	3.93	16.3	-----
1917.....	646,402	15,911,203	6,780,872	588	24.8	4.27	17.7	-----
1918.....	628,436	14,995,557	7,167,144	621	27.0	5.33	22.9	-----
1919.....	560,499	14,273,422	6,531,570	623	25.4	6.14	24.8	123.0
1920.....	619,507	15,336,778	7,264,316	639	26.7	6.81	25.1	125.1
1921.....	519,817	12,449,086	7,309,192	567	24.6	7.38	31.4	122.4
1922.....	544,486	13,926,355	6,798,121	599	24.3	7.19	28.6	123.5
1923.....	631,167	16,374,750	8,536,002	632	25.2	7.19	28.1	127.8
1924.....	590,579	15,856,163	8,519,637	634	24.5	7.22	27.3	126.8
1925.....	602,873	16,836,710	9,319,706	663	24.6	7.41	26.9	128.5
1926.....	622,295	17,759,004	10,154,842	689	25.0	7.58	27.0	130.4
1927.....	598,435	17,390,777	10,298,061	690	24.6	7.59	26.6	130.3
<b>Class I roads, total:</b>								
1916-1920.....	604,422	15,156,421	6,836,894	613	25.4	5.30	21.9	-----
1921-1925.....	567,286	14,988,046	8,032,691	633	27.1	7.28	28.3	25.8
1926.....	610,980	17,640,926	10,077,357	701	27.4	7.58	27.0	30.4
1927.....	588,081	17,288,758	10,231,801	702	27.1	7.59	26.6	30.3
1928.....	601,648	17,854,323	10,508,601	720	26.7	7.78	26.2	31.3
<b>Eastern district:</b>								
1916-1920.....	244,387	6,512,690	3,059,466	738	28.1	6.05	23.0	-----
1921-1925.....	220,500	6,183,778	3,317,411	744	28.8	8.51	30.7	22.4
1926.....	239,823	7,185,667	4,079,957	795	28.8	8.70	29.4	26.5
1927.....	226,704	6,952,881	4,141,499	796	28.5	8.70	28.8	26.2
1928.....	221,161	7,062,721	4,177,697	830	27.7	9.09	28.4	26.5
<b>Southern district:</b>								
1916-1920.....	113,132	2,620,391	1,246,908	581	26.0	4.44	19.9	-----
1921-1925.....	118,509	2,857,938	1,614,396	632	29.3	6.15	26.1	30.0
1926.....	135,916	3,540,983	2,203,309	727	31.1	6.55	25.7	36.7
1927.....	127,386	3,409,143	2,176,295	735	30.7	6.66	25.4	36.8
1928.....	124,814	3,328,529	2,118,108	737	30.2	6.68	25.1	36.4
<b>Western district:</b>								
1916-1920.....	246,903	6,023,340	2,530,519	510	22.2	5.00	21.7	-----
1921-1925.....	228,277	5,946,330	3,100,884	531	24.3	6.70	26.9	28.2
1926.....	235,241	6,914,271	3,794,100	596	23.9	7.07	25.2	32.6
1927.....	233,991	6,926,734	3,914,007	598	23.9	7.05	24.9	32.5
1928.....	255,673	7,433,073	4,212,796	616	24.2	7.18	24.7	34.5

<sup>1</sup> Data available for Class I roads only.

<sup>2</sup> Class I and Class II roads

Source. Interstate Commerce Commission.

## No. 435.—FREIGHT TRAFFIC: TONNAGE AND REVENUE

NOTE.—Figures before 1916 relate to years ended June 30, thereafter to calendar years. Switching and terminal roads excluded beginning with 1908. For certain principal items for individual years, 1890 to 1900, see Table 439, p. 409. Tons are of 2,000 pounds

Class and year or yearly average	Tons of revenue freight carried (thousands)		Tons carried 1 mile (millions)		Revenue ton-miles per mile of road	Average haul, revenue freight (miles)		Freight revenue	
	Originated	Total	Revenue freight	Revenue and non-revenue		Sys-tem	Indi-vidual road	Amount (1,000 dolls.)	Per ton-mile (cents)
<b>All roads:</b>									
1891-1895.....	-----	692, 446	85, 693	-----	506, 809	-----	123 75	758, 930	0 886
1896-1900.....	-----	874, 389	113, 962	-----	611, 128	-----	130 33	879, 837	. 772
1901-1905.....	691, 120	1, 266, 313	167, 715	-----	820, 016	242 67	132 44	1, 298, 713	. 774
1906-1910.....	930, 254	1, 673, 431	228, 936	-----	1, 006, 849	246 10	136 81	1, 744, 823	. 762
1911-1915.....	1, 074, 121	1, 903, 074	277, 073	-----	1, 104, 718	257 95	145 59	2, 051, 625	. 740
1916-1920.....	1, 325, 772	2, 378, 164	390, 815	-----	1, 510, 297	294 78	164 33	3, 419, 260	. 875
1921-1925.....	1, 231, 193	2, 216, 318	375, 468	-----	1, 455, 688	304 96	169 41	4, 377, 618	1. 166
1901.....	583, 692	1, 089, 226	147, 077	-----	760, 414	251 98	135 03	1, 118, 543	. 750
1902.....	657, 847	1, 200, 316	157, 289	-----	793, 351	239 10	131 04	1, 207, 229	. 757
1903.....	714, 768	1, 304, 394	173, 221	-----	855, 442	242 35	132 80	1, 338, 020	. 763
1904.....	714, 375	1, 309, 899	174, 522	-----	829, 476	244 30	133 23	1, 379, 003	. 780
1905.....	754, 920	1, 427, 732	186, 463	-----	861, 396	237 56	130 60	1, 450, 773	. 766
1906.....	806, 159	1, 631, 374	215, 878	-----	982, 401	240 89	132 33	1, 640, 387	. 748
1907.....	977, 489	1, 796, 337	236, 601	-----	1, 052, 119	242 05	131 71	1, 823, 652	. 759
1908.....	869, 798	1, 532, 982	218, 382	-----	974, 654	253 04	143 83	1, 655, 419	. 754
1909.....	881, 334	1, 556, 560	218, 803	-----	953, 986	251 10	141 87	1, 677, 614	. 763
1910.....	1, 026, 492	1, 849, 900	255, 017	-----	1, 071, 086	259 68	138 31	1, 925, 553	. 753
1911.....	1, 003, 054	1, 781, 638	253, 784	-----	1, 053, 566	254 10	142 88	1, 925, 951	. 757
1912.....	1, 031, 207	1, 844, 978	264 081	-----	1, 078, 580	256 87	143 44	1, 968, 599	. 744
1913.....	1, 162, 548	2, 058, 085	301, 730	-----	1, 190, 397	255 15	144 40	2, 198, 931	1. 729
1914.....	1, 129, 992	2, 002, 036	288, 637	-----	1, 125, 084	255 43	144 17	2, 126, 717	. 737
1915.....	1, 023, 803	1, 828, 992	277, 135	-----	1, 075, 962	270 69	151 55	2, 037, 926	. 735
1916.....	1, 317, 246	2, 347, 396	360, 173	-----	1, 409, 957	277 98	155 99	2, 631, 092	. 719
1917.....	1, 382, 005	2, 453, 423	398, 263	-----	1, 538, 211	288 18	162 33	2, 897, 436	. 728
1918.....	1, 376, 845	2, 477, 022	408, 778	-----	1, 682, 796	296 89	165 02	3, 522, 052	. 862
1919.....	1, 189, 765	2, 185, 285	367, 161	-----	1, 428, 390	308 60	168 60	3, 624, 886	. 987
1920.....	1, 362, 999	2, 427, 622	413, 699	-----	1, 597, 133	303 52	170 41	4, 420, 833	1. 069
1921.....	1, 017, 818	1, 808, 836	309, 533	-----	1, 199, 328	304 11	171 12	4, 004, 109	1. 294
1922.....	1, 111, 822	1, 974, 618	342, 188	-----	1, 330, 460	307 77	173 29	4, 085, 742	1. 194
1923.....	1, 387, 755	2, 503, 117	416, 256	-----	1, 615, 741	299 94	166 29	4, 712, 495	1. 132
1924.....	1, 287, 418	2, 331, 281	391, 945	-----	1, 581, 556	304 44	168 12	4, 437, 380	1. 132
1925.....	1, 351, 155	2, 463, 725	417, 418	-----	1, 613, 862	308 93	169 43	4, 648, 364	1. 114
1926.....	1, 438, 612	2, 627, 432	447, 444	-----	1, 732, 295	319 81	170 29	4, 908, 981	1. 096
1927.....	1, 372, 347	2, 510, 054	432, 014	-----	1, 668, 500	314 75	172 11	4, 728, 885	1. 095
<b>Class I Roads:</b>									
1916-1920.....	1, 216, 452	2, 211, 754	387, 377	-----	1, 662, 549	318 52	175 14	3, 336, 480	. 861
1921-1925.....	1, 135, 499	2, 068, 262	372, 216	409, 740	1, 581, 865	327 80	179 97	4, 277, 134	1. 149
1926.....	1, 336, 142	2, 465, 369	443, 746	456, 265	1, 575, 304	332 11	179 99	4, 797, 780	1. 081
1927.....	1, 281, 611	2, 363, 039	428, 737	471, 793	1, 801, 414	334 53	181 39	4, 632, 321	1. 080
1928.....	1, 285, 943	2, 361, 623	432, 985	476, 994	1, 814, 461	336 71	185 50	4, 679, 837	1. 081
<b>Eastern district:</b>									
1916-1920.....	590, 689	1, 262, 780	183, 006	-----	3, 089, 938	309 76	144 92	1, 485, 056	. 811
1921-1925.....	510, 141	1, 112, 147	163, 644	178, 569	2, 827, 013	326 66	149 84	1, 906, 544	1. 144
1926.....	580, 200	1, 309, 242	193, 717	207 798	3, 284, 052	333 89	147 96	2, 120, 301	1. 094
1927.....	541, 075	1, 237, 669	183, 739	198, 474	3, 115, 925	333 58	148 46	2, 005, 133	1. 093
1928.....	545, 968	1, 238, 667	183, 553	196, 445	3, 124, 176	336 20	150 00	2, 010, 938	1. 096
<b>Southern district:</b>									
1916-1920.....	208, 528	324, 057	68, 621	-----	1, 590, 465	329 07	211 76	524, 210	. 764
1921-1925.....	234, 018	363, 728	77, 047	84, 282	1, 756, 460	329 24	217 81	749, 632	. 973
1926.....	310, 578	461, 263	101, 426	110, 692	2, 282, 083	326 57	219 89	913, 966	. 901
1927.....	308, 893	449, 763	96, 339	105, 219	2, 128, 963	311 83	214 20	871, 910	. 905
1928.....	294, 173	427, 027	91, 977	100, 554	2, 022, 108	312 66	217 69	834, 050	. 907
<b>Western district:</b>									
1916-1920.....	417, 235	624, 917	135, 751	-----	1, 039, 046	325 23	217 61	1, 327, 215	. 978
1921-1925.....	301, 340	602, 387	128, 525	146, 889	1, 970, 062	328 42	213 36	1, 620, 958	1. 261
1926.....	445, 364	694, 864	148, 003	167, 775	1, 115, 686	333 67	213 86	1, 763, 513	1. 187
1927.....	431, 643	676, 217	148, 629	168, 100	1, 111, 412	344 40	219 84	1, 752, 275	1. 179
1928.....	445, 802	695, 989	157, 455	179, 995	1, 171, 609	353 19	228 87	1, 834, 849	1. 165

<sup>1</sup> Class I and Class II roads

<sup>2</sup> Includes estimates for traffic roads of Class II or Class III or both where these roads were not included in the published totals.

Source Interstate Commerce Commission.

## No. 436.—REVENUE AND TRAFFIC BY MONTHS: CLASS I CARRIERS

NOTE.—Except at times of general revisions in freight rates changes in freight revenue are closely parallel to those of ton mileage. Data except as indicated include Class I switching and terminal companies

Year	Average	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
TOTAL OPERATING REVENUES (millions of dollars)													
1910 <sup>1</sup> ....	234 7	209 1	200 7	235 7	223 9	232 5	236 2	231 5	253. 0	254. 8	261 2	244 9	233. 2
1911.....	231 2	211. 6	196. 0	223 5	244 9	226 2	228 4	228 9	253 6	281 9	244. 2	234. 9	234. 9
1912.....	249 8	208 2	216 1	230 8	210 2	232 3	242 9	253 0	275 8	274 4	298 2	275 9	264. 4
1913.....	260 9	247 0	226 9	245 9	242 3	262 1	258 9	266 3	279 6	283 4	296 3	266 6	252. 4
1914.....	244 0	231 3	207 1	247 5	235 4	237 7	249 3	256 0	267. 1	269 6	266 6	233 8	226 3
1915.....	256 6	214 1	205 1	231 5	231 0	237 9	249 5	259 2	273 1	287 2	303 7	299 1	288. 1
1916.....	302. 1	260 9	262 8	290 2	282 0	301 0	300 0	303 2	327 2	325 3	338 7	322 7	311. 1
1917.....	337. 4	300 8	265 4	317 1	319 3	345 9	349 7	348 4	366 2	358 8	382 5	357 3	337. 1
1918.....	410. 5	285 4	290 0	366 4	371 6	379 0	395 2	470 4	504 7	489 7	490 8	440 9	441. 5
1919.....	432 0	397 2	352 4	477 4	389 5	413 9	426. 1	455 3	471 7	498 6	509 8	438 1	453. 4
1920.....	519. 0	500 8	424 6	460. 2	402 3	457. 6	494 7	529 1	555. 5	618 9	641 8	592 1	550 6
1921.....	464. 2	470 4	406 5	459 0	433 4	444 9	461 6	462 9	505 7	498 3	536 7	465 9	425 3
1922.....	468. 3	395 8	401 6	475 2	417 1	449 4	474 0	443. 8	474 1	500 9	550 3	523 6	513 6
1923.....	523. 9	502. 5	446 9	535. 8	523 3	548 1	541. 3	536 3	564 5	546 1	587 9	532 0	494 6
1924.....	499. 0	469 0	479 5	505 4	475 2	477 5	465 7	481. 8	508 5	541 0	572 9	505 9	505 2
1925.....	515. 6	485 0	455 2	486 7	473 7	489 0	507 0	522 5	555 5	565 6	591 5	553 0	524. 1
1926.....	538 8	481 4	460 8	531. 5	500 5	518 0	541 4	557 9	580 3	591 2	610 4	562 3	527. 7
1927.....	517 6	487 6	469 6	531 6	498 9	519 6	517 5	509 7	557 5	565 5	581 0	504 3	467. 7
1928.....	514. 9	457 4	456 6	505 2	474 3	510 7	502 5	513 0	557 9	556 0	617 8	531 2	495. 8

## FREIGHT REVENUE (millions of dollars)

1914.....	166. 0	156. 1	140 9	174. 3	160. 2	159 0	164. 1	168 5	177 0	185 1	188 8	163 3	154. 3
1915.....	178. 9	147. 2	143 3	163 4	161 9	165 3	168 8	170 3	181 0	198 7	220 6	219 3	206. 4
1916.....	214. 6	185 9	191 1	212. 3	202 7	217 9	208 1	204 2	227 3	228 8	245 6	236 4	214. 6
1917.....	236 1	211 7	185. 1	227. 3	227 9	251 9	247 3	241 6	250 3	242 2	271 4	254 7	221. 7
1918.....	288 2	188 8	198 6	259 9	264. 5	263 3	263 8	328 4	350 9	342 1	365 4	322 6	309 7
1919.....	296 3	278 4	242. 3	256. 0	265 7	286 7	284. 3	306 5	313 8	346 7	368 5	303 5	303 6
1920.....	360. 6	311 6	299 2	324 6	268 8	314 1	340. 3	356 1	369 6	438 9	480 4	436 9	386. 7
1921.....	327. 2	324 9	284. 2	320 8	304 8	313 1	322 2	314 8	353 8	354. 8	402 0	342 4	288. 7
1922.....	334. 1	277 1	294 6	354 3	288 9	319 6	331. 9	299 6	326 5	355 9	406 4	389 9	364. 2
1923.....	335. 5	367. 0	326 8	398 8	386 3	405 5	387 3	379 3	402 1	390 9	441 5	395 9	344. 1
1924.....	362. 4	333 4	352 7	371 7	344 8	344 8	323 4	340 1	358 5	399 2	439 0	381 0	362. 2
1925.....	379 4	360 8	336 9	369 3	347 2	359 4	368 1	377 5	403 4	443 7	450 6	402 5	379. 5
1926.....	401. 7	347 8	340 8	402 0	370 6	385 5	397 8	409 5	429 6	445 0	472 4	433 5	384. 9
1927.....	387 5	358 1	354 1	406 6	371 6	391 3	382 2	370 1	415 3	426 9	452 9	386 0	334 9
1928.....	390 8	337 4	346 0	387 7	356 0	391 1	370 3	381 6	421 0	423 3	492 3	415 1	367. 2

## PASSENGER REVENUE (millions of dollars)

1918.....	86 0	66 5	62. 3	73. 1	72 5	79 2	94 8	104 7	113 8	105. 9	84 8	81 8	93 0
1919.....	98 3	87 1	79 3	89. 4	89 6	92 7	105. 6	113 7	120 7	110. 2	99 0	92 5	100. 1
1920.....	107. 3	91. 9	82 6	92. 6	93 0	98 9	107 4	123 2	132. 9	129 9	113. 9	106 7	114 8
1921.....	96 2	105 2	88 5	97 3	90 6	93 5	99 8	108 9	109 2	100 6	88 9	82 6	88 7
1922.....	89 7	83 7	73 6	80 6	83 5	85 5	96 0	100 7	101 6	87 5	90 2	84 8	98. 5
1923.....	95 6	91. 1	79. 1	88. 3	87 8	90 0	102. 8	107 5	113 0	105 9	88 8	87 1	101. 1
1924.....	89 7	91 7	83. 4	87. 1	85. 2	85 6	96 0	97 4	104 6	93 2	82 9	73 8	89 9
1925.....	88. 0	88 7	77 6	79. 6	78 4	82 0	92 6	98 0	104 0	95 7	86 5	81 1	92 0
1926.....	87 0	89. 6	78 6	80. 8	80 7	82 8	92. 5	97 9	90 0	92 7	82 2	77 4	89 7
1927.....	81 4	86 0	74 3	76 7	77 4	78 6	86 0	91 7	91 7	86 3	75 2	70 9	81 9
1928.....	75 1	78 5	69. 6	70 5	71. 0	70 3	81. 7	82. 7	85. 1	80 1	69 6	65. 2	76 5

FREIGHT TON-MILES (millions)<sup>1</sup>

1918.....	36, 410	27, 620	29, 678	37, 706	37, 993	37, 507	37, 668	39, 347	40, 776	39, 579	39, 842	35, 564	33, 639
1919.....	32, 814	30, 356	25, 630	32, 813	35, 593	32, 276	31, 881	34, 916	36, 410	38, 678	40, 361	32, 497	33, 363
1920.....	37, 445	34, 964	32, 958	37, 865	38, 592	37, 892	38, 246	40, 449	42, 734	40, 908	42, 570	37, 349	34, 726
1921.....	34, 478	29, 784	24, 915	26, 816	25, 591	28, 220	28, 146	28, 402	30, 420	30, 864	36, 672	29, 222	25, 723
1922.....	31, 320	27, 151	28, 451	32, 941	24, 735	27, 940	29, 062	27, 115	30, 472	34, 334	39, 287	38, 077	36, 421
1923.....	38, 133	27, 707	32, 628	39, 222	38, 321	39, 598	38, 001	38, 518	40, 344	39, 461	42, 210	38, 158	37, 277
1924.....	35, 803	34, 510	35, 982	36, 426	31, 926	33, 915	31, 968	33, 185	36, 457	39, 004	43, 134	38, 067	35, 006
1925.....	38, 007	37, 026	33, 570	35, 332	33, 571	37, 126	36, 854	37, 944	41, 709	41, 305	44, 054	40, 775	37, 858
1926.....	40, 725	37, 680	35, 405	38, 669	36, 300	39, 834	39, 252	41, 717	43, 734	44, 346	48, 296	43, 360	40, 112
1927.....	39, 559	39, 233	37, 259	41, 817	37, 111	40, 118	38, 477	38, 369	41, 984	42, 959	45, 537	37, 250	34, 596
1928.....	40, 004	39, 269	35, 701	39, 467	35, 866	39, 250	37, 304	39, 196	42, 406	43, 778	48, 206	41, 965	37, 645

<sup>1</sup>Returns for January to October, inclusive, do not include switching and terminal companies

<sup>2</sup>Exclusive of switching and terminal companies.

Source Interstate Commerce Commission.



## No. 437.—PASSENGERS CARRIED AND PASSENGER REVENUE

NOTE.—Figures relate to years ended June 30 prior to 1916, to calendar years thereafter. Passenger service revenue per train-mile includes revenue from mail, express, etc., but average revenue per passenger-mile is computed only from revenue from passengers themselves

Class and year or yearly average	Passengers carried (thousands)	Passengers carried 1 mile (millions)	Average journey per passenger (miles)	Passenger train-miles (thousands)	Passenger train car-miles (thousands)	Passenger revenue (thousand dollars)	Passenger service revenue per train-mile	Revenue per passenger-mile (cts)	Average passengers per train
<b>All roads:</b>									
1891-1895	546,762	13,383	24.48	321,031		281,415	\$1.05	2.10	42
1896-1900	520,459	13,863	26.64	345,457		279,900	.99	2.02	39
1901-1905	681,261	20,737	30.44	428,244		416,009	1.11	2.01	45
1906-1910	885,003	28,683	32.41	506,868		506,815	1.26	1.98	53
1911-1915	1,018,804	33,768	33.14	587,501	3,264,399	672,792	1.32	1.98	54
1916-1920	1,152,566	42,548	36.92	560,364	3,416,933	1,021,536	1.23	2.40	172
1921-1925	982,320	36,869	37.53	571,455	3,603,117	1,112,634	1.24	3.02	165
1901	607,278	17,354	28.58	385,173		351,356	1.03	2.01	42
1902	649,879	19,690	30.30	405,613		392,963	1.00	1.99	45
1903	694,892	20,916	30.10	425,142		421,705	1.12	2.01	46
1904	715,420	21,923	30.64	440,465		444,327	1.14	2.01	46
1905	738,535	23,800	32.21	459,827		472,695	1.16	1.96	48
1906	797,946	25,167	31.54	479,038		510,033	1.20	2.00	49
1907	873,906	27,719	31.72	509,328		504,606	1.26	2.01	51
1908	890,010	29,083	32.86	505,946	2,705,660	566,833	1.27	1.94	54
1909	891,472	29,109	32.85	506,011	2,746,511	563,609	1.27	1.93	54
1910	971,683	32,338	33.50	549,015	2,998,171	628,992	1.30	1.94	56
1911	997,410	33,202	33.48	572,929	3,136,774	657,633	1.31	1.97	55
1912	1,004,081	33,132	33.18	585,854	3,235,634	660,378	1.29	1.99	53
1913	1,043,603	34,673	33.31	593,061	3,320,488	695,988	1.36	2.01	55
1914	1,063,249	35,387	33.25	605,212	3,399,604	703,484	1.34	1.99	56
1915	985,676	32,475	32.95	580,448	3,229,496	646,475	1.31	1.99	53
1916	1,048,987	35,270	33.58	595,441	3,409,639	722,359	1.44	2.05	56
1917	1,109,943	40,190	36.13	598,338	3,485,788	840,910	1.69	2.10	65
1918	1,122,963	43,212	38.48	544,327	3,276,489	1,046,166	1.23	2.42	176
1919	1,211,022	46,838	38.68	553,147	3,446,787	1,193,431	1.24	2.55	182
1920	1,269,913	47,370	37.30	574,826	3,618,617	1,304,815	1.28	2.76	180
1921	1,061,131	37,706	35.53	568,242	3,503,514	1,166,252	1.51	3.09	167
1922	989,509	35,811	36.19	553,919	3,445,869	1,087,516	1.50	3.04	165
1923	1,008,538	38,294	37.97	573,938	3,616,342	1,158,925	1.56	3.03	167
1924	950,459	36,368	38.26	579,384	3,676,746	1,085,672	1.41	2.99	163
1925	901,963	36,107	40.10	581,792	3,773,114	1,064,806	1.27	2.94	163
1926	874,589	35,673	40.79	584,972	3,862,610	1,049,210	1.23	2.94	161
1927	840,030	34,798	40.23	578,355	3,850,116	980,528	1.23	2.90	159
<b>Class I roads:</b>									
1916-1920	1,114,055	41,989	37.69	556,495	3,406,925	1,005,690	2.13	2.40	72
1921-1925	962,153	36,556	37.99	558,568	3,572,292	1,100,602	2.47	3.01	65
1926	862,361	35,478	41.14	573,627	3,836,788	1,041,816	2.33	2.94	61
1927	829,918	33,650	40.55	568,538	3,830,557	974,951	2.23	2.90	59
1928	778,731	31,583	40.50	562,587	3,718,903	898,961		2.85	56
<b>Eastern district:</b>									
1916-1920	693,837	19,590	28.23	231,816	1,427,364	439,137	2.32	2.24	83
1921-1925	642,556	18,656	29.01	230,179	1,507,410	528,429	2.44	2.84	81
1926	608,365	18,762	30.84	238,329	1,694,092	523,475	2.77	2.79	78
1927	591,510	18,165	30.71	236,208	1,640,957	502,365	2.70	2.77	76
1928	560,985	17,322	30.89	231,815	1,558,592	473,009		2.73	75
<b>Southern district:</b>									
1916-1920	139,052	6,295	45.27	91,976	535,012	160,704	1.98	2.55	65
1921-1925	108,845	5,191	47.69	96,314	582,587	174,435	2.22	3.36	53
1926	88,671	5,187	58.49	103,399	667,800	173,755	2.10	3.35	50
1927	85,609	4,508	52.65	100,870	642,168	147,282	1.87	3.27	44
1928	78,941	4,034	51.10	98,502	615,094	129,613		3.21	41
<b>Western district:</b>									
1916-1920	281,166	16,105	57.28	232,704	1,444,548	405,849	2.00	2.52	64
1921-1925	210,952	12,729	60.34	232,075	1,482,295	397,738	2.21	3.12	54
1926	165,325	11,529	69.74	231,899	1,535,316	344,586	1.99	2.90	49
1927	152,799	10,977	71.84	231,460	1,547,432	325,304	1.90	2.96	47
1928	139,105	10,182	73.20	232,220	1,546,217	296,329		2.91	44

<sup>1</sup> Data available for Class I only

<sup>2</sup> Class I and Class II roads.

Source: Interstate Commerce Commission.

## No. 438.—REVENUES, EXPENSES, AND INCOME OF OPERATING COMPANIES

NOTE.—Data relate to years ended June 30 prior to 1916, to calendar years thereafter. The method of calculating net revenue and net operating income is more fully shown in Table 442. Switching and terminal companies are excluded beginning with 1908. For certain principal items for individual years 1890 to 1900, see Table 440, p 409

Class and year or yearly average	Average miles of line (first track) operated	Income account items (thousands of dollars)					Per mile of line		Per cent operating expenses of revenues
		Operating revenues	Operating expenses	Net revenue from operations	Tax accruals	Net railway operating income	Operating revenues	Net revenue from operations	
<b>All roads:</b>									
1891-1895.....	169, 378	1, 127, 531	759, 588	367, 942	34, 915	333, 027	\$6, 657	\$2, 172	67 37
1896-1900.....	186, 001	1, 264, 048	832, 377	431, 671	41, 970	389, 701	6, 796	2, 321	65 85
1901-1905.....	206, 050	1, 854, 682	1, 226, 737	627, 945	53, 106	574, 840	9, 001	3, 048	66 14
1906-1910.....	229, 404	2, 628, 171	1, 705, 542	922, 630	80, 931	727, 407	11, 021	3, 586	67 46
1911-1915.....	246, 952	3, 007, 262	2, 123, 282	883, 980	123, 345	729, 172	12, 164	3, 578	70 61
1916-1920.....	258, 295	4, 870, 468	3, 971, 453	899, 015	227, 680	624, 304	18, 856	3, 481	81 54
1921-1925.....	257, 932	6, 003, 699	4, 684, 135	1, 319, 563	328, 822	899, 332	23, 276	5, 116	78 02
1901.....	195, 562	1, 588, 526	1, 030, 397	558, 129	46, 708	511, 421	8, 123	2, 854	64 86
1902.....	200, 155	1, 726, 380	1, 116, 249	610, 131	50, 054	560, 077	8, 625	3, 048	64 66
1903.....	205, 314	1, 900, 847	1, 257, 539	643, 308	53, 252	590, 056	9, 258	3, 133	66 16
1904.....	212, 243	1, 975, 174	1, 338, 896	636, 278	56, 802	579, 476	9, 306	2, 968	67 79
1905.....	216, 974	2, 082, 452	1, 390, 602	691, 850	58, 712	633, 168	9, 598	3, 189	66 78
1906.....	222, 340	2, 325, 765	1, 536, 877	788, 888	69, 064	719, 824	10, 460	3, 548	66 08
1907.....	227, 455	2, 589, 106	1, 748, 516	840, 590	73, 743	766, 840	11, 383	3, 696	67 53
1908.....	227, 257	2, 440, 639	1, 710, 402	730, 237	78, 674	654, 794	10, 740	3, 213	70 08
1909.....	232, 981	2, 473, 205	1, 650, 034	823, 171	85, 140	710, 474	10, 615	3, 533	66 72
1910.....	236, 887	2, 812, 142	1, 881, 879	930, 263	98, 035	805, 097	11, 866	3, 925	66 92
1911.....	243, 434	2, 852, 855	1, 978, 332	876, 523	102, 657	744, 669	11, 719	3, 601	69 28
1912.....	246, 829	2, 906, 416	2, 035, 058	871, 358	113, 819	727, 458	11, 775	3, 530	70 02
1913.....	242, 657	3, 193, 118	2, 235, 923	957, 195	122, 005	805, 266	13, 169	3, 945	70 02
1914.....	254, 775	3, 127, 730	2, 280, 416	847, 314	140, 470	674, 190	12, 276	3, 326	72 91
1915.....	256, 214	2, 956, 193	2, 088, 683	867, 510	137, 775	694, 276	11, 538	3, 386	70 65
1916.....	257, 325	3, 691, 065	2, 426, 251	1, 264, 815	161, 825	1, 058, 508	14, 344	4, 915	65 73
1917.....	258, 913	4, 115, 413	2, 906, 283	1, 209, 130	218, 632	950, 557	15, 895	4, 670	70 62
1918.....	258, 263	4, 985, 290	4, 071, 522	913, 768	229, 533	646, 223	19, 303	3, 538	81 67
1919.....	257, 949	5, 250, 420	4, 498, 817	751, 603	239, 136	454, 132	20, 354	2, 914	85 68
1920.....	259, 026	6, 310, 151	5, 954, 394	355, 757	239, 272	12, 101	24, 361	1, 373	94 36
1921.....	258, 089	5, 632, 665	4, 668, 998	963, 667	283, 163	601, 139	21, 825	3, 734	82 89
1922.....	257, 195	5, 674, 483	4, 509, 991	1, 164, 492	308, 145	769, 411	22, 063	4, 528	79 48
1923.....	257, 625	6, 419, 210	4, 969, 383	1, 419, 827	339, 577	974, 918	24, 917	5, 511	77 88
1924.....	258, 104	6, 045, 252	4, 608, 807	1, 436, 445	347, 437	984, 463	23, 422	5, 565	76 24
1925.....	258, 646	6, 246, 883	4, 633, 497	1, 613, 386	365, 790	1, 136, 728	24, 152	6, 238	74 17
1926.....	258, 295	6, 508, 679	4, 766, 235	1, 742, 444	396, 538	1, 229, 020	25, 199	6, 746	73 28
1927.....	258, 877	6, 245, 716	4, 662, 521	1, 583, 195	383, 112	1, 077, 842	24, 126	6, 116	74 65
<b>Class I roads</b>									
1916-1920.....	232, 974	4, 763, 039	3, 879, 220	883, 819	210, 774	616, 987	20, 445	3, 794	81 44
1921-1925.....	235, 302	5, 881, 815	4, 583, 425	1, 298, 431	321, 536	883, 599	24, 997	5, 518	77 92
1926.....	236, 626	6, 382, 940	4, 669, 337	1, 713, 603	388, 923	1, 213, 090	26, 975	7, 242	73 15
1927.....	238, 000	6, 136, 300	4, 574, 178	1, 562, 122	376, 110	1, 067, 985	25, 783	6, 564	74 84
1928.....	239, 706	6, 104, 322	4, 422, 484	1, 681, 838	359, 225	1, 171, 460	25, 466	7, 016	72 45
<b>Eastern district:</b>									
1916-1920.....	59, 228	2, 128, 577	1, 816, 825	311, 752	84, 004	188, 683	35, 999	5, 264	85 35
1921-1925.....	58, 947	2, 668, 020	2, 125, 217	542, 803	128, 138	364, 374	45, 261	9, 208	79 66
1926.....	58, 987	2, 898, 986	2, 167, 706	731, 280	159, 240	514, 945	49, 146	12, 397	74 77
1927.....	58, 968	2, 758, 468	2, 096, 757	661, 712	162, 390	450, 276	46, 779	11, 222	76 01
1928.....	58, 816	2, 724, 296	1, 998, 023	726, 273	162, 719	502, 332	46, 319	12, 348	73 34
<b>Southern district:</b>									
1916-1920.....	43, 128	739, 378	595, 867	143, 511	33, 198	114, 870	17, 144	3, 328	80 59
1921-1925.....	43, 865	992, 307	762, 100	230, 207	54, 088	170, 826	22, 622	5, 248	76 80
1926.....	44, 445	1, 165, 528	830, 126	335, 402	75, 720	253, 499	26, 224	7, 546	71 22
1927.....	45, 251	1, 090, 867	798, 113	292, 754	72, 463	217, 771	24, 107	6, 470	73 16
1928.....	45, 718	1, 033, 071	749, 171	283, 900	71, 214	212, 958	22, 597	6, 210	72 52
<b>Western district:</b>									
1916-1920.....	130, 618	1, 895, 083	1, 466, 527	428, 557	102, 572	313, 433	14, 509	3, 281	77 39
1921-1925.....	132, 490	2, 221, 328	1, 696, 108	525, 421	139, 310	348, 399	16, 767	3, 966	76 35
1926.....	133, 194	2, 318, 426	1, 671, 505	646, 921	153, 963	444, 646	17, 406	4, 857	72 10
1927.....	133, 781	2, 286, 964	1, 679, 308	607, 656	151, 257	399, 938	17, 095	4, 542	73 43
1928.....	135, 172	2, 346, 955	1, 675, 290	671, 065	155, 292	456, 150	17, 363	4, 969	71 88

1 Class I and Class II roads.

Source: Interstate Commerce Commission.

**No. 439.—FREIGHT TRAFFIC: TONNAGE AND REVENUE, 1890 TO 1900**

NOTE.—Includes switching and terminal companies. Further data for freight traffic are presented in Table 435, p. 405. Tons are of 2,000 pounds

Year ended June 30—	Total tons of revenue freight carried (thou- sands)	Tons of revenue freight carried 1 mile (mil- lions)	Freight revenue		Year ended June 30—	Total tons of revenue freight carried (thou- sands)	Tons of revenue freight carried 1 mile (mil- lions)	Freight revenue	
			Amount (1,000 dollars)	Per ton- mile (cents)				Amount (1,000 dollars)	Per ton- mile (cents)
1890.....	636,542	76,207	714,464	0.941	1896.....	753,717	95,328	786,616	0.806
1891.....	675,608	81,074	736,794	.895	1897.....	723,900	95,139	772,849	.798
1892.....	706,555	88,241	799,316	.898	1898.....	863,629	114,078	876,728	.753
1893.....	745,119	93,588	829,054	.878	1899.....	943,715	123,667	913,737	.724
1894.....	638,187	80,335	699,491	.860	1900.....	1,081,933	141,597	1,049,256	.729
1895.....	696,761	85,228	729,993	.839					

Source Interstate Commerce Commission

**No. 440.—REVENUES AND EXPENSES OF OPERATING COMPANIES, 1890 TO 1900**

NOTE.—Includes switching and terminal companies. Further data for revenues and expenses are presented in Table 433, p. 403

Year ended June 30—	Average miles of line (first track) operated	Operating revenues (1,000 dollars)	Operating ex- penses (1,000 dollars)	Per cent oper- ating ex- penses of rev- enues	Year ended June 30—	Average miles of line (first track) operated	Operating revenues (1,000 dollars)	Operating ex- penses (1,000 dollars)	Per cent oper- ating ex- penses of rev- enues
1890.....	156,404	1,051,878	692,094	65.80	1896.....	181,983	1,150,169	772,989	67.20
1891.....	161,275	1,096,761	731,888	66.73	1897.....	183,284	1,122,090	752,525	67.06
1892.....	162,397	1,171,407	780,998	66.67	1898.....	184,648	1,247,326	817,973	65.58
1893.....	169,780	1,220,752	827,921	67.82	1899.....	187,535	1,313,610	856,969	65.24
1894.....	175,691	1,073,362	731,414	68.14	1900.....	192,556	1,487,045	961,429	64.65
1895.....	177,746	1,075,371	725,720	67.48					

Source Interstate Commerce Commission

**No. 441.—OPERATING REVENUES AND EXPENSES OF ALL CLASSES OF RAILWAYS**

Class	1926				1927			
	Operating reve- nues		Operating ex- penses		Operating reve- nues		Operating ex- penses	
	Amount (1,000 dollars)	Per cent of grand total	Amount (1,000 dollars)	Per cent of grand total	Amount (1,000 dollars)	Per cent of grand total	Amount (1,000 dollars)	Per cent of grand total
Class I.....	6,382,939	96.41	4,669,337	96.30	6,136,300	96.63	4,574,178	96.44
Class II.....	107,666	1.63	80,700	1.67	92,923	1.46	72,679	1.53
Class III.....	18,073	.27	16,198	.33	16,402	.26	15,664	.33
<b>Total.....</b>	<b>6,508,678</b>	<b>98.31</b>	<b>4,766,235</b>	<b>98.30</b>	<b>6,245,715</b>	<b>98.35</b>	<b>4,662,521</b>	<b>98.30</b>
Switching and terminal companies.....	112,130	1.69	82,382	1.70	104,958	1.65	80,489	1.70
<b>Grand total.....</b>	<b>6,620,808</b>	<b>100.00</b>	<b>4,848,617</b>	<b>100.00</b>	<b>6,350,673</b>	<b>100.00</b>	<b>4,743,010</b>	<b>100.00</b>

Source Interstate Commerce Commission.

## No. 442.—INCOME ACCOUNT OF CLASS I CARRIERS: OPERATING ROADS

NOTE.—All figures in thousands of dollars. Switching and terminal companies are excluded.

Item	1916- 1920 (average)	1921- 1925 (average)	1924	1925	1926	1927	1928 <sup>1</sup>
<b>Revenues</b> .....	4,763,039	5,881,858	5,921,496	6,122,510	6,382,939	6,136,300	6,104,322
Freight.....	3,336,480	4,277,134	4,333,585	4,541,646	4,797,780	4,632,321	4,685,970
Passenger.....	1,005,690	1,100,603	1,075,039	1,056,395	1,041,816	974,951	900,306
Mail.....	76,508	94,900	97,952	97,097	96,157	95,961	104,317
Express.....	118,933	137,886	143,372	145,355	149,049	143,385	142,445
All other transportation.....	92,041	129,878	133,918	138,395	143,773	141,005	141,185
All other.....	133,387	141,455	137,630	143,622	154,364	148,697	130,099
<b>Expenses</b> .....	3,879,220	4,583,425	4,507,885	4,536,880	4,669,337	4,574,178	4,422,484
Maintenance, way, etc.....	663,681	781,577	792,678	816,443	866,819	868,581	837,137
Maintenance, equipment.....	1,040,185	1,297,802	1,260,020	1,259,835	1,283,091	1,219,052	1,165,663
Traffic.....	59,749	93,919	98,873	106,053	114,691	120,349	124,750
Transportation.....	1,947,814	2,194,358	2,141,469	2,128,471	2,171,904	2,127,506	2,066,962
All other.....	167,791	215,769	214,845	226,078	232,832	238,690	227,972
<b>Net revenue from railway operations</b> .....	883,819	1,298,431	1,413,611	1,585,630	1,713,602	1,562,122	1,681,838
<b>Deduct</b> —							
Tax accruals.....	219,774	321,536	340,337	358,516	388,923	376,110	389,225
Uncollectible revenues.....	868	1,895	2,306	1,924	1,851	1,492	1,580
Equipment rents.....	25,647	67,659	72,908	79,394	82,888	88,351	92,421
Joint facility rents.....	20,543	23,742	24,223	24,719	26,850	28,184	27,152
<b>Net railway operating income</b> .....	616,987	883,599	973,837	1,121,077	1,213,090	1,067,985	1,171,460

Item	Eastern district			Southern district			Western district		
	1926	1927	1928	1926	1927	1928	1926	1927	1928
<b>Revenues</b> .....	2,898,986	2,758,469	2,724,296	1,165,527	1,090,867	1,033,071	2,313,426	2,286,964	2,346,955
Freight.....	2,120,301	2,008,136	2,007,141	913,966	871,910	833,931	1,763,513	1,752,275	1,844,898
Passenger.....	523,475	502,365	473,442	173,755	147,282	129,565	344,586	325,304	297,299
Mail.....	36,877	36,474	40,311	13,789	10,624	17,739	42,791	42,863	46,267
Express.....	70,591	67,133	64,977	22,933	21,633	21,142	55,505	54,594	50,326
All other transportation.....	75,871	74,339	73,321	15,435	13,705	13,006	52,417	52,961	54,858
All other.....	72,171	70,017	65,104	22,579	19,713	17,688	59,614	53,967	47,307
<b>Expenses</b> .....	2,167,706	2,096,757	1,998,023	830,126	798,113	749,171	1,671,505	1,679,308	1,675,290
Maintenance, way, etc.....	368,337	363,433	344,725	167,397	157,959	146,003	331,085	347,189	346,409
Maintenance, equipment.....	620,645	573,813	542,188	227,862	220,610	207,471	434,584	424,629	416,004
Traffic.....	42,046	44,690	46,286	23,546	24,201	24,238	49,099	51,458	54,226
Transportation.....	1,027,563	1,003,474	900,542	377,128	353,447	333,891	767,213	765,585	772,529
All other.....	109,115	111,347	104,282	34,193	36,896	37,568	89,524	90,447	86,122
<b>Net revenue from railway operations</b> .....	731,280	661,712	726,273	335,401	292,754	283,900	646,921	607,656	671,665
<b>Deduct</b> —									
Tax accruals.....	159,240	152,890	162,719	75,720	72,463	71,214	153,963	151,257	155,292
Uncollectible revenues.....	997	575	874	255	308	245	599	609	461
Equipment rents.....	43,954	45,295	47,641	3,353	2,97	2,770	35,531	43,153	47,550
Joint facility rents.....	12,144	13,176	12,687	2,574	2,309	2,253	12,132	12,699	12,212
<b>Net railway operating income</b> .....	514,945	450,276	502,352	253,499	217,771	212,958	444,646	399,938	456,150

<sup>1</sup> Water line transportation apportioned to the several accounts, included in "All other" in prior years.<sup>2</sup> Add.

Source: Interstate Commerce Commission

# No. 443.—TAXES AND SPECIAL ASSESSMENTS OF CLASS I CARRIERS, BY STATES

NOTE.—Data for 1910 relate to year ended June 30, thereafter to calendar years, and for all years exclude switching and terminal companies and include nonoperating subsidiaries. Data for 1910 include also Class II and Class III and for 1916, Class II. Total railroad taxes, Federal and State, in 1927, by classes were as follows: Class I and subsidiaries, \$378,024,762 (including \$977,731 Canadian, \$7 Cuban, \$4,047 Mexican, and \$4,403 not distributed by States), Class II and subsidiaries, \$6,201,393; Class III and subsidiaries, \$829,194, switching and terminal companies, \$13,946,520, grand total, \$399,004,874

State	Amount (thousands of dollars)						Per mile of line (dollars)			
	1910	1916	1920	1925	1926	1927	1910	1920	1925	1927
<b>Total.....</b>	<b>103,738</b>	<b>162,475</b>	<b>282,751</b>	<b>359,370</b>	<b>389,753</b>	<b>377,039</b>	-----	<b>1,262</b>	<b>1,603</b>	<b>1,666</b>
<b>United States Gov-</b>										
<b>ernment taxes.....</b>	<b>4,315</b>	<b>12,531</b>	<b>50,543</b>	<b>87,680</b>	<b>109,818</b>	<b>86,031</b>	-----	<b>226</b>	<b>391</b>	<b>380</b>
<b>New England:</b>										
Maine.....	675	1,026	1,725	1,977	2,014	2,084	301	831	977	1,054
New Hampshire.....	778	746	1,005	1,042	1,130	1,147	629	827	868	985
Vermont.....	257	491	451	453	420	464	251	608	592	593
Massachusetts.....	3,097	2,575	3,839	3,920	4,137	4,185	1,484	1,616	1,920	2,036
Rhode Island.....	276	397	585	604	630	678	1,302	2,906	3,348	3,750
Connecticut.....	1,868	1,114	1,975	2,058	2,098	2,021	1,867	1,977	2,138	2,101
<b>Middle Atlantic:</b>										
New York.....	7,312	11,724	17,861	22,613	24,221	24,144	877	2,271	2,876	3,072
New Jersey.....	5,066	7,656	11,189	17,355	17,323	16,952	2,290	5,292	8,466	8,259
Pennsylvania.....	6,352	9,957	9,342	11,134	12,770	13,023	587	945	1,131	1,319
<b>South Atlantic:</b>										
Delaware.....	161	153	165	182	175	172	482	493	609	575
Dist. of Columbia.....	56	64	70	126	147	124	1,562	2,291	3,661	3,578
Maryland.....	1,016	1,211	2,004	1,352	2,053	2,217	742	1,591	1,112	1,823
Virginia.....	1,756	3,012	4,695	5,614	7,095	7,872	400	1,129	1,375	1,899
West Virginia.....	1,454	2,355	3,879	6,046	5,969	6,225	463	1,155	1,744	1,755
North Carolina.....	952	1,706	2,129	4,748	5,126	5,243	220	592	1,322	1,444
South Carolina.....	764	1,091	1,951	2,840	3,134	3,268	232	623	911	1,052
Georgia.....	1,886	1,957	2,481	3,310	3,476	3,603	206	455	612	668
Florida.....	839	1,572	2,167	3,888	4,490	5,483	208	542	879	1,105
<b>East North Central:</b>										
Ohio.....	5,457	10,618	16,841	18,518	18,926	20,140	611	2,048	2,184	2,356
Indiana.....	3,845	5,803	9,422	11,627	12,145	11,911	521	1,328	1,684	1,727
Illinois.....	5,938	9,049	16,422	21,576	21,567	21,255	501	1,421	1,908	1,898
Michigan.....	4,052	4,220	7,579	7,658	8,140	8,995	469	1,083	1,076	1,273
Wisconsin.....	3,162	4,968	6,876	7,295	6,410	6,563	440	995	1,030	937
<b>West North Central:</b>										
Minnesota.....	3,958	6,445	9,753	7,965	7,679	7,697	461	1,151	962	925
Iowa.....	2,463	3,871	7,855	6,842	6,835	6,901	253	808	706	712
Missouri.....	1,830	2,253	3,859	3,716	3,833	3,766	230	457	498	505
North Dakota.....	1,427	2,289	4,997	4,290	4,113	4,294	341	969	834	833
South Dakota.....	834	1,635	3,718	3,161	1,807	2,644	211	900	752	629
Nebraska.....	2,031	2,704	4,159	4,747	4,577	5,167	335	677	770	837
Kansas.....	3,074	4,108	6,188	6,670	8,405	8,869	344	688	727	966
<b>South Central:</b>										
Kentucky.....	1,073	2,018	2,184	4,246	5,099	5,323	312	624	1,157	1,419
Tennessee.....	1,181	1,718	2,584	3,107	2,905	3,270	326	702	847	880
Alabama.....	1,410	1,751	2,648	2,687	2,919	3,170	297	560	603	714
Mississippi.....	997	1,916	3,612	5,064	5,094	4,929	250	942	1,364	1,283
<b>West South Central:</b>										
Louisiana.....	1,238	2,235	3,788	4,578	4,825	4,911	250	971	1,180	1,219
Texas.....	2,638	4,656	5,098	6,514	6,456	6,952	196	364	469	481
Oklahoma.....	2,967	3,653	5,463	5,682	5,344	5,611	499	864	917	896
Arkansas.....	1,847	2,248	3,912	2,663	2,568	2,768	277	948	622	642
<b>Mountain:</b>										
Montana.....	1,486	2,781	4,284	4,728	4,586	4,539	356	871	966	917
Wyoming.....	614	901	1,213	1,659	1,672	1,809	384	686	924	1,005
Colorado.....	1,637	2,451	3,344	3,719	3,720	3,943	306	729	828	880
New Mexico.....	745	1,179	2,467	2,212	2,153	2,508	254	915	796	866
Arizona.....	321	1,341	1,672	2,485	2,495	3,029	158	776	1,187	1,370
Utah.....	692	1,123	1,856	2,161	2,139	2,201	383	907	1,039	1,047
Nevada.....	668	1,028	1,543	1,762	1,826	1,805	388	942	1,088	1,066
Idaho.....	714	1,475	3,844	2,872	2,900	3,106	345	1,500	1,099	1,185
<b>Pacific:</b>										
Washington.....	3,151	4,064	8,795	6,647	6,658	7,418	685	1,698	1,309	1,462
Oregon.....	913	1,492	2,722	2,736	3,157	3,461	444	1,060	1,025	1,291
California.....	3,444	5,142	7,187	12,863	12,579	13,088	508	1,071	1,893	1,911

# No. 443.—TAXES AND SPECIAL ASSESSMENTS OF CLASS I CARRIERS, BY STATES

NOTE.—Data for 1910 relate to year ended June 30, thereafter to calendar years, and for all years exclude switching and terminal companies and include nonoperating subsidiaries. Data for 1910 include also Class II and Class III and for 1916, Class II. Total railroad taxes, Federal and State, in 1927, by classes were as follows: Class I and subsidiaries, \$378,024,762 (including \$977,731 Canadian, \$7 Cuban, \$4,047 Mexican, and \$4,403 not distributed by States), Class II and subsidiaries, \$6,201,393; Class III and subsidiaries, \$829,194, switching and terminal companies, \$13,946,520, grand total, \$399,004,874

State	Amount (thousands of dollars)						Per mile of line (dollars)			
	1910	1916	1920	1925	1926	1927	1910	1920	1925	1927
<b>Total.....</b>	<b>103,738</b>	<b>162,475</b>	<b>282,751</b>	<b>359,370</b>	<b>389,753</b>	<b>377,039</b>	-----	<b>1,262</b>	<b>1,603</b>	<b>1,666</b>
<b>United States Gov-</b>										
<b>ernment taxes.....</b>	<b>4,315</b>	<b>12,531</b>	<b>50,543</b>	<b>87,680</b>	<b>109,818</b>	<b>86,031</b>	-----	<b>226</b>	<b>391</b>	<b>380</b>
<b>New England:</b>										
Maine.....	675	1,026	1,725	1,977	2,014	2,084	301	831	977	1,054
New Hampshire.....	778	746	1,005	1,042	1,130	1,147	629	827	868	985
Vermont.....	257	491	451	453	420	464	251	608	592	593
Massachusetts.....	3,097	2,575	3,839	3,920	4,137	4,185	1,484	1,616	1,920	2,036
Rhode Island.....	276	397	585	604	630	678	1,302	2,906	3,348	3,750
Connecticut.....	1,868	1,114	1,975	2,058	2,098	2,021	1,867	1,977	2,138	2,101
<b>Middle Atlantic:</b>										
New York.....	7,312	11,724	17,861	22,613	24,221	24,144	877	2,271	2,876	3,072
New Jersey.....	5,066	7,656	11,189	17,355	17,323	16,952	2,290	5,292	8,466	8,259
Pennsylvania.....	6,352	9,957	9,342	11,134	12,770	13,023	587	945	1,131	1,319
<b>South Atlantic:</b>										
Delaware.....	161	153	165	182	175	172	482	493	609	575
Dist. of Columbia.....	56	64	70	126	147	124	1,562	2,291	3,661	3,578
Maryland.....	1,016	1,211	2,004	1,352	2,053	2,217	742	1,591	1,112	1,823
Virginia.....	1,756	3,012	4,695	5,614	7,095	7,872	400	1,129	1,375	1,899
West Virginia.....	1,454	2,355	3,879	6,046	5,969	6,225	463	1,195	1,744	1,755
North Carolina.....	952	1,706	2,129	4,748	5,126	5,243	220	552	1,322	1,444
South Carolina.....	764	1,091	1,951	2,840	3,134	3,268	232	623	911	1,052
Georgia.....	1,886	1,957	2,481	3,310	3,476	3,603	206	455	612	668
Florida.....	839	1,572	2,167	3,888	4,490	5,483	208	542	879	1,105
<b>East North Central:</b>										
Ohio.....	5,457	10,618	16,841	18,518	18,926	20,140	611	2,048	2,184	2,356
Indiana.....	3,845	5,803	9,422	11,627	12,145	11,911	521	1,328	1,684	1,727
Illinois.....	5,938	9,049	16,422	21,576	21,567	21,255	501	1,421	1,908	1,898
Michigan.....	4,052	4,220	7,579	7,658	8,140	8,995	469	1,083	1,076	1,273
Wisconsin.....	3,162	4,968	6,876	7,295	6,410	6,563	440	995	1,030	937
<b>West North Central:</b>										
Minnesota.....	3,958	6,445	9,753	7,965	7,679	7,697	461	1,151	962	925
Iowa.....	2,463	3,871	7,855	6,842	6,835	6,901	253	808	706	712
Missouri.....	1,830	2,253	3,859	3,716	3,833	3,766	230	457	498	505
North Dakota.....	1,427	2,289	4,997	4,290	4,113	4,294	341	969	834	833
South Dakota.....	834	1,635	3,718	3,161	1,807	2,644	211	900	752	629
Nebraska.....	2,031	2,704	4,159	4,747	4,577	5,167	335	677	770	837
Kansas.....	3,074	4,108	6,188	6,670	8,405	8,869	344	688	727	966
<b>South Central:</b>										
Kentucky.....	1,073	2,018	2,184	4,246	5,099	5,323	312	624	1,157	1,419
Tennessee.....	1,181	1,718	2,584	3,107	2,905	3,270	326	702	847	880
Alabama.....	1,410	1,751	2,648	2,687	2,919	3,170	297	560	603	714
Mississippi.....	997	1,916	3,612	5,064	5,094	4,929	250	942	1,364	1,283
<b>West South Central:</b>										
Louisiana.....	1,238	2,235	3,788	4,578	4,825	4,911	250	971	1,180	1,219
Texas.....	2,638	4,656	5,098	6,514	6,456	6,952	196	364	469	481
Oklahoma.....	2,967	3,653	5,463	5,682	5,344	5,611	499	864	917	896
Arkansas.....	1,847	2,248	3,912	2,663	2,568	2,768	277	948	622	642
<b>Mountain:</b>										
Montana.....	1,486	2,781	4,284	4,728	4,586	4,539	356	871	966	917
Wyoming.....	614	901	1,213	1,659	1,672	1,809	384	686	924	1,005
Colorado.....	1,637	2,451	3,344	3,719	3,720	3,943	306	729	828	880
New Mexico.....	745	1,179	2,467	2,212	2,153	2,508	254	915	796	866
Arizona.....	321	1,341	1,672	2,485	2,495	3,029	158	776	1,187	1,370
Utah.....	692	1,123	1,856	2,161	2,139	2,201	383	907	1,039	1,047
Nevada.....	668	1,028	1,543	1,762	1,826	1,805	388	942	1,088	1,066
Idaho.....	714	1,475	3,844	2,872	2,900	3,106	345	1,500	1,099	1,185
<b>Pacific:</b>										
Washington.....	3,151	4,064	8,795	6,647	6,658	7,418	685	1,698	1,309	1,462
Oregon.....	913	1,492	2,722	2,736	3,157	3,461	444	1,060	1,025	1,291
California.....	3,444	5,142	7,187	12,863	12,579	13,088	508	1,071	1,893	1,911

## PRINCIPAL ITEMS OF TRAFFIC, REVENUES, AND EXPENSES OF LARGER COMPANIES

smaller roads of Class I not listed

Operating ratio (per cent)		Railway tax accruals		Net railway operating income		Freight revenue		Passenger revenue		Region and road
Thousands of dollars										
1927	1928	1927	1928	1927	1928	1927	1928	1927	1928	
74 5	72 4	576, 110	395, 066	1, 067, 985	1, 193, 134	4, 632, 321	4, 688, 780	974, 951	900, 327	All regions.
75 7	72 4	13, 330	14, 735	39, 615	47, 482	163, 868	163, 557	75, 618	71, 507	New England.
79 4	75 0	3, 573	3, 946	9, 501	12, 803	50, 055	50, 397	18, 426	16, 989	1
71 7	68 4	6, 435	7, 494	25, 235	29, 238	75, 002	75, 341	49, 436	47, 271	2
76 0	73 6	63, 225	68, 933	184, 392	208, 297	818, 866	826, 328	181, 208	173, 142	Great Lakes.
80 9	78 5	1, 404	1, 050	6, 711	7, 633	36, 208	35, 628	3, 604	3, 497	1
71 1	71 5	7, 457	6, 393	17, 398	17, 119	61, 676	59, 708	13, 007	12, 003	2
84 6	78 5	4, 233	4, 351	12, 125	18, 434	87, 483	90, 361	11, 691	10, 675	3
61 2	59 8	588	707	836	1, 613	12, 360	13, 129	639	579	4
81 9	76 3	4, 821	5, 058	12, 961	20, 047	99, 783	103, 490	12, 330	11, 254	Total 3 and 4.
79 6	74 8	3, 474	3, 678	9, 836	12, 315	61, 208	59, 510	7, 688	6, 995	5
69 4	67 2	6, 248	6, 328	20, 989	23, 156	60, 355	64, 098	20, 203	19, 793	6
76 5	75 5	25, 194	29, 137	61, 824	62, 222	234, 381	234, 618	99, 105	96, 917	7
71 9	71 6	2, 720	2, 981	9, 996	9, 557	50, 031	49, 346	1, 818	1, 815	8
70 7	67 8	2, 491	2, 725	9, 292	10, 596	38, 767	40, 033	3, 247	2, 968	9
82 8	81 5	2, 005	2, 039	8, 005	7, 771	28, 006	27, 938	2, 754	2, 409	10
76 6	73 7	2, 788	3, 052	9, 612	11, 950	53, 993	58, 840	8, 154	7, 195	11
76 1	73 2	75, 835	82, 509	226, 279	259, 335	1, 027, 402	1, 019, 703	245, 543	228, 793	Central Eastern.
75 7	72 9	12, 287	11, 639	44, 817	49, 388	203, 568	197, 215	26, 287	23, 712	1
73 8	72 6	3, 738	5, 059	10, 384	9, 385	45, 767	45, 564	8, 731	8, 450	2
80 6	78 0	1, 400	1, 583	2, 292	2, 201	20, 492	19, 184	4, 123	3, 606	3
77 1	75 4	5, 047	4, 929	14, 603	15, 623	67, 980	67, 594	15, 570	14, 558	4
70 0	68 4	1, 380	2, 164	4, 179	3, 731	22, 294	22, 383	-----	-----	5
73 7	70 2	2, 472	2, 689	6, 163	7, 542	11, 857	11, 605	26, 357	26, 460	6
76 8	73 8	35, 710	37, 846	103, 977	117, 298	461, 612	457, 294	140, 811	131, 180	7
77 6	77 6	5, 185	4, 521	16, 790	17, 099	78, 576	76, 312	8, 923	7, 775	8
64 6	63 9	21, 819	20, 195	81, 282	79, 636	244, 827	232, 735	20, 001	16, 871	Pocahontas.
67 5	66 1	8, 746	8, 491	36, 321	36, 324	119, 220	112, 842	8, 555	7, 083	1
62 8	62 2	10, 300	9, 200	34, 011	34, 204	99, 992	97, 602	6, 804	5, 727	2
76 1	75 4	50, 644	51, 148	136, 488	133, 803	627, 033	601, 290	127, 281	112, 694	Southern.
80 0	78 4	6, 050	5, 800	10, 271	9, 895	58, 839	52, 019	14, 056	13, 065	1
75 8	76 4	1, 555	1, 513	5, 051	4, 450	20, 758	19, 020	4, 423	3, 729	2
76 4	76 3	10, 012	10, 253	25, 616	25, 762	121, 456	119, 939	23, 115	21, 432	3
78 1	78 3	7, 640	7, 605	23, 877	22, 205	116, 384	110, 019	20, 027	17, 354	4
75 9	75 0	3, 567	3, 536	10, 389	10, 055	46, 432	43, 844	9, 715	7, 958	5
70 4	70 7	9, 454	9, 579	32, 765	30, 843	109, 331	108, 641	26, 749	24, 017	6
84 3	77 7	1, 869	1, 949	1, 599	3, 175	21, 297	21, 614	3, 950	3, 552	7
75 1	72 2	49, 399	53, 493	114, 466	142, 243	557, 434	590, 593	89, 847	82, 604	Northwestern.
77 9	76 7	9, 784	9, 608	20, 258	23, 226	108, 330	111, 418	25, 183	23, 579	1
81 9	73 4	8, 370	10, 239	14, 073	29, 119	127, 804	136, 226	19, 213	18, 091	2
81 2	85 0	1, 327	1, 392	2, 079	1, 858	20, 071	20, 607	4, 648	4, 190	3
66 5	65 7	9, 046	10, 298	29, 203	31, 294	94, 405	103, 980	12, 717	11, 505	4
72 7	72 4	2, 964	2, 968	8, 663	9, 006	39, 711	41, 473	5, 604	4, 989	5
71 0	69 9	8, 907	9, 688	22, 593	25, 089	75, 463	81, 725	11, 773	10, 733	6
76 2	78 8	2, 389	2, 245	2, 931	2, 143	22, 710	23, 451	3, 752	3, 339	7
69 2	70 3	76, 996	75, 208	200, 639	217, 122	771, 228	814, 327	169, 514	155, 246	Central Western.
71 2	69 2	17, 856	15, 923	45, 894	47, 554	150, 944	153, 909	38, 279	34, 684	1
78 5	78 6	1, 233	1, 202	2, 734	2, 751	19, 444	20, 102	6, 189	5, 603	2
71 6	70 1	11, 677	11, 192	28, 143	32, 012	118, 497	126, 953	22, 059	19, 715	3
73 9	73 6	7, 653	8, 054	21, 927	22, 396	99, 556	103, 184	21, 866	19, 290	4
75 7	73 6	2, 380	2, 300	6, 391	7, 095	26, 438	27, 041	4, 000	3, 627	5
67 9	65 6	3, 275	3, 444	6, 937	8, 574	29, 151	31, 877	4, 210	3, 944	6
70 5	70 3	17, 636	17, 597	45, 308	46, 020	154, 036	159, 487	40, 686	38, 846	7
64 6	63 7	8, 673	8, 591	27, 575	31, 072	88, 166	96, 870	15, 581	14, 987	8
75 7	72 1	24, 862	28, 847	84, 834	105, 236	423, 615	439, 937	66, 943	59, 470	Southwestern.
72 9	71 1	1, 435	1, 317	5, 060	5, 293	29, 682	24, 080	2, 839	2, 382	1
66 3	62 6	2, 458	2, 464	9, 378	10, 543	28, 643	29, 874	3, 958	3, 350	2
76 3	79 7	673	610	2, 322	1, 661	15, 319	15, 389	3, 854	3, 418	3
79 2	75 3	4, 769	5, 813	16, 899	21, 348	100, 788	107, 388	14, 653	13, 553	4
68 8	69 1	4, 811	5, 052	22, 045	20, 660	64, 305	63, 923	13, 975	11, 485	5
81 2	78 6	2, 982	3, 927	6, 120	8, 875	46, 075	53, 589	10, 262	10, 862	6
73 9	68 0	1, 839	2, 246	6, 498	10, 446	30, 596	41, 604	5, 604	5, 971	7

Source Interstate Commerce Commission.

## No. 445.—REVENUE FREIGHT CARRIED, BY CLASSES OF COMMODITIES: CLASS I CARRIERS

NOTE.—The classification was changed in 1920, but comparable figures for earlier years for many commodities appear in Table 245, Statistical Abstract, 1921. See headnote, Table 446

Commodity	Revenue freight originated (thousands of tons of 2,000 pounds)										Total revenue freight carried, 1928 (thousands of tons of 2,000 pounds)			
	All districts													
	1920	1922	1923	1924	1925	1926	1927	1928	1928	1928				
									Eastern district	South-ern district	West-ern district	Eastern district	South-ern district	West-ern district
Grand total, carload and l. c. l.....	1,255,491	1,083,745	1,279,090	1,197,266	1,247,242	1,396,142	1,281,611	1,285,943	545,968	394,173	445,802	1,238,607	497,027	686,989
Grand total, carload traffic.....	1,202,219	980,516	1,234,692	1,146,747	1,206,655	1,286,651	1,243,171	1,248,989	597,779	286,892	434,318	1,205,678	414,126	678,553
Products of agriculture, total.....	110,840	111,787	109,318	116,567	109,313	111,787	113,343	118,022	21,461	14,289	92,292	68,913	32,695	123,942
Wheat.....	23,131	24,305	23,001	27,444	21,543	24,379	26,237	26,950	2,632	1,687	23,670	6,731	2,025	30,095
Corn.....	12,680	19,275	15,151	14,883	12,680	13,927	13,162	17,015	3,425	1,987	11,633	7,005	3,494	15,927
Oats.....	8,615	7,646	8,332	8,507	8,450	6,490	5,518	6,888	1,572	882	3,434	3,605	1,730	4,559
Other grain.....	5,669	5,245	4,739	3,606	4,564	4,014	5,212	5,966	1,469	116	4,921	1,853	424	6,469
Flour and meal.....	10,952	10,684	10,518	10,331	9,901	10,137	10,027	10,753	2,644	844	7,265	10,928	3,083	10,628
Other mill products.....	8,891	9,000	10,002	10,085	9,578	9,768	10,178	10,581	3,105	1,232	6,244	9,223	3,065	9,017
Hay, straw, and alfalfa.....	7,957	6,723	5,965	5,802	5,506	5,028	4,407	3,999	1,562	213	2,224	3,077	1,279	2,998
Tobacco.....	1,081	882	1,069	1,070	1,038	1,010	1,053	1,945	1,116	1,797	182	1,362	1,258	1,141
Cotton.....	3,379	3,073	2,887	3,259	4,127	4,452	4,150	3,773	122	1,326	2,325	1,331	2,976	3,923
Cottonseed and products, except oil.....	4,573	3,546	3,574	4,598	5,849	6,484	6,046	4,984	21	2,217	7,746	5,592	3,191	3,883
Citrus fruits.....	1,404	1,141	1,542	1,630	1,363	1,583	1,750	1,543	34	582	927	1,638	1,622	3,280
Other fresh fruits.....	5,271	5,063	5,249	5,114	5,910	6,321	5,648	6,401	1,106	1,519	3,776	6,403	3,459	10,168
Potatoes.....	4,118	4,698	4,591	4,614	4,389	4,727	4,511	4,339	1,799	520	2,192	2,663	1,655	25,102
Other fresh vegetables.....	2,205	2,324	2,473	2,685	2,823	2,800	3,063	3,124	1,787	384	1,803	3,582	1,748	5,694
Dried fruits and vegetables.....	1,165	1,154	1,135	1,438	1,593	1,568	1,527	1,878	433	97	1,348	1,276	346	2,609
Other products of agriculture.....	9,741	7,386	8,863	9,524	9,824	9,501	10,526	10,141	1,674	725	7,742	8,574	1,400	9,269
Animals and products, total.....	26,595	26,230	28,254	27,747	26,394	26,244	26,008	25,684	6,095	1,985	17,694	18,119	4,101	23,804
Horses and mules.....	936	461	603	531	544	513	541	577	47	106	424	118	211	8,761
Cattle and calves.....	9,809	9,567	9,400	9,315	9,330	9,240	8,634	7,977	886	574	6,517	2,070	786	1,538
Sheep and goats.....	1,344	1,159	1,159	1,215	1,224	1,270	1,297	1,361	1,159	62	1,140	334	76	1,538
Hogs.....	5,421	5,795	6,944	6,707	5,502	5,272	5,369	5,871	1,156	443	4,272	2,320	581	4,041
Fresh meats.....	2,770	2,614	3,023	3,000	2,904	2,996	2,987	2,935	889	295	4,272	3,871	638	2,180
Other packing-house products.....	2,206	2,049	2,396	2,365	2,139	2,022	1,957	2,205	982	209	1,982	3,513	953	1,449
Poultry.....	264	292	356	376	357	409	407	406	62	50	284	849	99	417
Eggs.....	536	565	597	572	591	644	651	635	117	51	467	955	129	728
Butter and cheese.....	425	307	371	693	696	725	747	734	136	28	590	1,103	121	714
Wool.....	283	360	294	263	263	281	356	394	247	5	142	698	17	268
Hides and leather.....	1,051	1,061	1,090	1,026	1,026	985	1,010	915	528	109	278	1,526	244	467
Other animals and products.....	1,540	1,750	1,814	1,668	1,738	1,887	2,049	1,606	816	113	677	1,712	227	1,059



<b>Products of mines, total</b>	712,154	592,998	713,755	678,358	757,703	713,402	694,563	900,508	205,635	192,440	710,563	225,476	271,463
Anthracite coal	78,100	83,342	76,108	58,260	76,015	72,175	69,987	60,547	67,583	67,583	115,056	248	371,463
Bituminous coal	384,340	287,617	390,367	346,346	388,736	390,551	344,057	140,069	160,949	45,339	415,460	133,111	87,831
Coke	26,885	15,407	27,871	19,788	22,198	22,198	16,241	12,765	1,560	1,910	20,476	3,307	3,248
Iron ore	84,433	77,817	68,861	72,134	66,355	66,355	65,241	2,839	2,466	63,329	41,883	3,202	64,604
Other ores and concentrates	91,750	7,963	10,504	12,289	13,089	11,335	11,838	1,627	501	1,779	3,433	1,224	17,269
Clay, gravel, sand, and stone	128,620	133,981	136,650	145,405	167,295	161,776	125,304	46,207	28,322	53,775	63,466	36,592	65,651
Crude petroleum	5,937	8,403	8,412	10,744	10,581	10,581	7,693	1,988	120	7,415	1,331	261	14,752
Asphaltum	1,434	2,517	2,517	2,531	3,101	3,101	2,839	1,583	704	507	3,282	1,008	2,821
Salt	3,250	3,245	3,393	3,303	3,238	3,251	3,41	1,669	30	1,662	2,424	1,136	3,302
Other products of mines	6,997	4,726	5,741	6,925	7,319	7,004	41,589	24,279	9,177	8,133	42,242	12,902	11,922
<b>Products of forests, total</b>	100,788	80,680	116,618	107,391	104,851	99,351	96,737	11,151	29,778	59,908	49,999	49,972	88,746
Logs, poles, and cordwood	38,571	35,627	47,178	45,155	45,163	41,676	30,541	2,413	7,893	23,251	5,213	9,557	33,073
Ties	5,472	6,681	5,508	4,292	4,833	5,338	4,240	809	1,010	1,821	2,093	2,263	2,697
Pulp wood	4,992	5,367	5,603	5,826	5,943	6,989	6,983	2,000	947	3,946	4,548	1,569	6,952
Lumber, timber, shooks, staves, headings	46,615	43,507	53,540	49,019	46,062	42,846	42,508	4,612	17,873	20,024	33,568	34,061	45,753
Other forest products	3,112	2,852	2,820	2,826	2,850	2,501	3,555	1,317	1,456	783	3,537	2,192	1,261
<b>Manufactures and miscellaneous, total</b>	251,884	220,442	297,787	285,291	296,068	291,073	312,013	188,644	37,205	86,194	339,155	73,192	170,919
Refined petroleum and its products	29,616	30,870	36,641	46,273	48,998	61,661	68,480	20,875	6,038	31,617	41,568	13,983	59,415
Sugar, syrups, glucose, and molasses	988	987	969	1,150	1,621	1,893	1,561	1,026	395	804	1,144	807	1,477
Iron, pig, and bloom	10,451	9,981	14,960	12,071	14,577	15,132	11,488	5,065	1,020	2,959	3,829	2,367	6,018
Rails and fastenings	3,047	2,978	3,192	2,646	2,875	2,595	8,553	1,980	4,382	8,616	11,662	1,560	11,662
Bar, sheet, and structural iron and pipe	27,443	26,151	24,800	26,144	30,568	31,878	45,461	40,114	8,277	8,070	68,300	6,692	12,311
Other metals, pig, bar, and sheet	5,170	4,337	5,330	4,904	5,672	4,898	3,748	1,020	40	1,582	4,121	257	2,316
Cutlery, machinery, and boilers	15,400	14,314	12,970	24,516	25,889	26,080	12,680	3,396	9,961	26,718	6,705	16,167	15,167
Cement	15,400	18,463	21,118	22,970	24,516	25,889	26,080	3,396	9,961	26,718	6,705	16,167	15,167
Brick and artificial stone	16,251	18,198	18,165	19,668	20,937	19,556	19,019	11,367	3,529	4,123	19,771	5,446	7,228
Lime and plaster	4,410	5,199	6,896	6,008	6,830	6,042	5,300	2,992	632	1,663	6,192	1,545	3,223
Sewer pipe and drain tile	2,165	2,063	2,220	2,281	2,387	2,712	2,556	1,548	385	1,676	3,941	692	1,069
<b>Agricultural implements and vehicles</b>	3,324	1,720	2,603	2,185	2,304	3,118	2,304	806	183	1,315	1,768	445	2,453
Other than automobiles	3,497	4,160	6,612	6,061	7,387	6,324	8,016	2,094	1,009	14,001	11,901	1,872	4,867
Automobiles and autotricks	743	692	682	987	987	1,004	1,063	433	297	308	1,385	651	813
Furniture (new)	1,240	614	684	683	700	804	813	301	61	451	641	124	1,598
Beverages	5,705	5,185	5,070	4,925	4,146	4,062	3,922	2,123	328	1,471	2,589	361	1,598
Fertilizers (all kinds)	9,204	6,813	7,639	7,815	8,197	10,466	12,639	4,502	5,964	2,573	7,072	8,739	3,654
Paper, printed matter, and books	3,144	2,766	2,913	3,328	3,084	3,322	3,303	2,514	137	862	5,537	4,106	3,524
Chemicals and explosives	8,348	7,545	8,080	8,423	10,084	9,116	2,979	1,464	707	705	2,436	1,312	1,172
Chemicals and explosives	8,348	7,545	8,080	8,423	10,084	9,116	2,979	1,464	707	705	2,436	1,312	1,172
Textiles	805	938	882	966	983	785	326	997	326	484	1,040	982	4,861
Canned goods (all canned food products)	3,074	3,106	3,435	3,740	4,144	4,070	4,204	4,505	2,471	5,389	864	4,861	4,861
Other manufactures and miscellaneous	77,814	65,625	77,849	72,202	78,807	83,217	80,447	80,946	8,768	16,898	120,892	18,756	32,331
<b>Merchandise—All in freight</b>	53,202	43,229	44,338	40,549	40,567	39,491	38,440	33,954	13,189	7,261	11,484	32,923	12,901
<b>Leaf tobacco only, refuse, stems, etc., included in "Other products of agriculture"</b>													
<b>Potatoes, except sweet</b>													
<b>Gravel, sand, and stone</b>													
<b>Machinery and boilers only</b>													
<b>Printing paper only</b>													
<b>Interstate Commerce Commission.</b>													

<sup>7</sup> Machinery and boilers only  
<sup>8</sup> Printing paper only  
Source: Interstate Commerce Commission.

<sup>4</sup> Pig iron only.  
<sup>5</sup> Includes frogs and switches  
<sup>6</sup> Iron and steel (5th and 6th class), tin andterne  
 plate, and cast-iron and steel pipes and fittings

1 Leaf tobacco only, refuse, stems, etc., included in  
 Other products of agriculture "  
 2 Potatoes, except sweet  
 3 Gravel, sand, and stone

## No. 446.—REVENUE FREIGHT CARRIED, BY COMMODITY GROUPS

NOTE.—All figures in thousands of tons of 2,000 pounds. Data relate to years ended June 30 prior to 1916, to calendar years thereafter. Switching and terminal roads excluded since 1908. Figures for 1911 to 1916, inclusive, exclude Class III roads but this affects the comparability very slightly, those after 1916 exclude both Class II and Class III, thereby reducing the grand total about 6 per cent. Nonrevenue freight is excluded, this is a large item in the case of a few commodities, notably coal.

Class of road and year or yearly average	Total	Prod-ucts of agri-culture	Anim-als and prod-ucts	Products of mines		Prod-ucts of forests	Manufactures and miscella-neous	
				Coal and coke	Other		Carload ship-ments	Less than car-load
I REVENUE FREIGHT ORIGINATED								
All roads:								
1901-1905.....	1 691, 121	59, 406	16, 608	237, 753	85, 803	72, 786	119, 707	27, 800
1906-1910.....	1 930, 255	73, 864	20, 000	324, 282	147, 864	98, 879	162, 225	33, 991
1911-1915 <sup>2</sup> .....	1 1, 053, 648	99, 095	25, 731	392, 808	192, 058	101, 143	181, 191	41, 314
1915 <sup>2</sup> .....	1 1, 005, 029	113, 040	26, 660	371, 882	184, 700	93, 971	163, 988	48, 163
1916 <sup>2</sup> .....	1 1, 293, 091	116, 867	31, 294	461, 608	275, 543	111, 850	239, 849	54, 420
Class I:								
1916.....	1 1, 203, 367	113, 635	30, 473	429, 761	250, 342	93, 819	231, 038	52, 911
1917.....	1 264, 016	104, 629	31, 858	481, 632	251, 021	100, 838	240, 269	53, 769
1918.....	1 263, 344	116, 051	35, 777	500, 769	234, 027	97, 256	226, 077	53, 387
1919.....	1 096, 111	115, 033	35, 494	399, 072	190, 879	94, 076	210, 256	51, 302
1920.....	1 255, 421	110, 840	20, 595	489, 344	222, 810	100, 766	251, 864	53, 202
1921.....	1 940, 183	114, 069	24, 263	376, 220	135, 050	76, 419	172, 169	41, 992
1922.....	1 023, 745	111, 787	26, 230	351, 846	181, 152	89, 059	220, 442	43, 229
1923.....	1 279, 030	109, 818	28, 254	471, 854	241, 881	115, 618	267, 767	44, 338
1924.....	1 187, 296	116, 587	27, 747	414, 499	223, 083	108, 094	256, 737	40, 549
1925.....	1 247, 242	109, 813	26, 324	424, 403	253, 933	107, 391	285, 291	40, 587
1926.....	1 336, 142	111, 787	26, 243	486, 044	270, 759	104, 851	296, 067	39, 491
1927.....	1 281, 611	113, 342	26, 003	449, 891	263, 511	99, 351	291, 073	38, 440
1928.....	1 285, 943	118, 022	25, 634	432, 266	264, 287	96, 737	312, 013	36, 954
Eastern district:								
1925.....	531, 908	23, 481	5, 844	215, 344	79, 360	11, 941	175, 860	19, 478
1926.....	580, 200	23, 950	5, 777	258, 428	78, 472	11, 497	183, 282	18, 794
1927.....	541, 075	23, 168	5, 843	228, 161	78, 974	10, 761	175, 775	18, 403
1928.....	545, 968	21, 451	6, 024	222, 180	78, 328	11, 151	188, 643	18, 191
Southern district:								
1925.....	281, 716	14, 666	1, 957	152, 094	35, 574	33, 343	34, 890	8, 592
1926.....	310, 579	15, 157	1, 936	172, 652	42, 927	32, 752	36, 694	8, 461
1927.....	308, 893	14, 593	2, 064	172, 668	41, 205	32, 249	37, 894	8, 220
1928.....	294, 173	14, 288	1, 985	162, 283	41, 352	29, 778	37, 206	7, 281
Western district:								
1925.....	434, 218	71, 166	18, 523	56, 365	138, 999	62, 107	74, 541	12, 517
1926.....	445, 363	72, 680	18, 530	55, 864	149, 360	60, 602	76, 091	12, 236
1927.....	437, 643	75, 581	18, 096	49, 062	143, 332	56, 351	77, 404	11, 137
1928.....	445, 802	82, 283	17, 625	47, 833	144, 607	55, 808	86, 164	11, 482
II TOTAL REVENUE FREIGHT <sup>3</sup>								
All roads:								
1901-1905.....	1 1, 266, 314	125, 234	34, 596	419, 764	150, 474	122, 927	231, 259	51, 468
1906-1910.....	1 1, 673, 431	150, 384	38, 769	589, 884	228, 563	168, 023	314, 007	59, 277
1911-1915 <sup>2</sup> .....	1 1, 881, 635	193, 252	44, 194	712, 193	284, 499	183, 292	356, 669	71, 847
Class I:								
1916-1920.....	1 2, 212, 267	225, 505	55, 199	826, 912	349, 783	193, 436	466, 202	93, 550
1921-1925.....	2 068, 262	221, 961	46, 065	757, 498	316, 014	192, 256	465, 097	66, 371
1925.....	2 304, 275	121, 124	46, 315	823, 354	388, 660	210, 077	552, 544	68, 201
1926.....	2 465, 369	223, 924	47, 023	926, 854	414, 723	204, 790	579, 830	68, 225
1927.....	2 363, 639	221, 384	46, 696	871, 713	400, 591	192, 774	564, 643	65, 838
1928.....	2 361, 623	225, 550	45, 724	838, 085	396, 400	187, 347	605, 256	63, 261
Eastern district:								
1925.....	1 208, 296	72, 062	17, 788	538, 708	158, 066	55, 631	330, 948	35, 093
1926.....	1 309, 249	73, 474	18, 083	617, 234	165, 393	53, 456	345, 586	35, 016
1927.....	1 237, 669	72, 361	18, 021	569, 139	160, 416	50, 216	334, 034	33, 482
1928.....	1 238, 607	68, 913	18, 119	549, 901	160, 661	48, 929	359, 155	32, 929
Southern district:								
1925.....	423, 769	33, 984	4, 238	187, 454	52, 695	57, 457	73, 704	14, 237
1926.....	461, 263	34, 951	4, 337	211, 599	60, 998	56, 026	78, 861	14, 401
1927.....	449, 753	33, 155	4, 414	210, 676	57, 252	53, 709	76, 291	14, 256
1928.....	427, 027	32, 695	4, 101	195, 752	56, 724	49, 672	75, 182	12, 901
Western district:								
1925.....	672, 210	109, 078	24, 289	97, 192	177, 899	96, 989	147, 892	18, 871
1926.....	694, 864	115, 499	24, 603	98, 021	188, 332	95, 308	154, 383	18, 718
1927.....	676, 217	115, 868	24, 261	91, 898	182, 923	88, 849	154, 318	18, 100
1928.....	695, 989	123, 942	23, 504	92, 432	179, 015	88, 746	170, 919	17, 431

<sup>1</sup> Includes some undistributed freight. <sup>2</sup> Excluding Class III. <sup>3</sup> Including receipts from connecting lines. Source: Interstate Commerce Commission.

**No. 447.—CAR LOADINGS: AVERAGE WEEKLY LOADINGS OF REVENUE FREIGHT, CLASS I RAILWAYS, BY PRINCIPAL COMMODITY GROUPS**

NOTE—Averages for earlier years for all commodities are: 1918, 857,540; 1919, 804,472; 1920, 867,663; 1921, 756,215; 1922, 830,915; 1923, 957,925

Month	1924	1925	1926	1927	1928	1924	1925	1926	1927	1928
	Total, all commodities					Grain and grain products				
Year.....	933,354	985,080	1,021,131	992,996	991,860	49,436	44,341	45,449	45,745	48,290
January.....	841,162	889,895	921,674	939,165	861,931	43,113	40,323	47,094	44,747	46,799
February.....	904,232	914,080	919,333	950,189	897,424	49,255	41,623	42,796	43,408	46,761
March.....	921,732	908,435	959,549	966,509	950,406	44,448	38,495	39,812	39,061	47,153
April.....	881,120	931,290	958,201	968,897	934,006	36,637	38,294	37,518	37,131	39,783
May.....	913,294	987,079	1,036,457	1,027,116	1,001,214	39,976	50,598	33,964	39,738	40,778
June.....	884,370	971,446	1,022,345	960,171	984,661	37,380	36,775	39,311	40,207	34,447
July.....	886,632	978,628	1,042,752	978,140	985,733	42,471	40,431	54,754	46,177	51,791
August.....	975,797	1,060,654	1,097,030	1,062,462	1,057,702	58,942	53,681	55,637	55,094	57,795
September.....	1,020,188	1,075,337	1,130,778	1,097,621	1,117,257	67,089	53,064	49,079	58,829	53,156
October.....	1,064,002	1,113,403	1,183,513	1,116,218	1,175,199	69,097	47,994	51,852	51,813	54,824
November.....	1,021,104	1,065,518	1,062,068	955,726	1,061,257	58,052	48,484	43,687	45,611	52,389
December.....	870,564	924,708	898,678	835,055	882,756	47,326	50,888	42,666	41,022	48,416
	Livestock					Coal				
Year.....	33,712	31,454	30,696	29,749	29,239	164,152	171,257	190,966	177,562	168,642
January.....	39,236	36,523	33,479	32,330	31,914	194,906	202,062	187,445	222,743	177,529
February.....	33,133	32,054	28,231	27,687	32,501	191,986	180,812	174,564	213,204	170,360
March.....	31,486	28,168	28,374	27,255	28,077	171,906	151,868	181,177	204,142	162,092
April.....	29,118	27,465	27,055	27,585	26,280	120,576	139,779	104,159	154,326	145,128
May.....	31,623	27,808	27,738	28,846	26,715	134,572	153,933	108,237	161,636	157,555
June.....	29,948	25,948	26,871	26,835	25,187	135,054	154,308	171,668	151,017	145,021
July.....	29,159	26,515	26,790	25,488	22,730	138,237	161,005	176,000	144,240	142,908
August.....	29,982	29,324	29,261	28,074	24,736	150,238	191,202	190,556	173,988	162,376
September.....	25,579	31,547	36,775	31,750	32,882	172,835	179,902	199,114	183,028	180,483
October.....	40,607	41,603	40,049	39,578	38,055	193,401	182,671	225,771	190,665	206,575
November.....	41,486	37,828	34,578	33,642	33,400	185,272	189,796	235,060	169,253	197,386
December.....	36,082	32,179	29,091	28,869	27,782	175,869	173,135	213,938	164,385	177,524
	Coke					Ore				
Year.....	9,969	11,987	13,142	10,547	10,237	32,280	38,685	41,907	36,380	36,686
January.....	11,883	13,562	17,960	12,176	10,659	8,250	9,908	9,879	9,461	7,934
February.....	12,729	13,277	17,992	12,361	11,204	9,392	10,610	10,196	10,688	7,848
March.....	13,729	12,586	14,371	12,303	10,875	10,749	11,477	10,544	10,920	8,752
April.....	11,564	11,465	12,807	11,447	10,118	16,817	20,735	15,042	25,473	10,264
May.....	9,197	9,650	11,841	10,693	10,149	49,818	62,533	55,301	59,833	41,930
June.....	7,743	8,238	11,476	10,887	9,065	58,046	62,206	67,063	64,742	65,597
July.....	6,980	9,143	11,272	9,669	8,313	55,980	62,083	72,788	63,003	62,617
August.....	6,980	9,626	11,464	9,691	9,229	51,589	62,863	77,601	62,188	63,271
September.....	8,086	10,990	12,174	9,780	10,067	47,768	59,100	75,196	55,897	63,916
October.....	9,697	12,849	13,023	9,447	10,725	44,613	53,008	67,666	48,046	60,247
November.....	9,910	15,495	12,832	9,067	10,734	23,957	38,165	32,078	19,291	37,910
December.....	11,226	15,671	11,777	9,597	10,556	10,169	12,411	9,564	8,370	10,414
	Forest products					Miscellaneous and L. C. L.				
Year.....	70,522	71,662	70,277	65,819	64,128	573,254	615,493	628,665	627,193	634,639
January.....	64,064	65,985	66,959	64,344	58,342	482,710	511,930	558,853	553,364	528,753
February.....	80,258	78,914	74,826	68,896	67,729	527,474	553,791	570,756	574,236	561,019
March.....	81,627	80,522	76,972	70,522	68,750	570,756	685,320	617,798	632,306	623,082
April.....	77,780	78,869	75,692	68,439	64,829	579,622	620,319	626,227	644,496	638,686
May.....	74,466	76,585	76,704	71,026	67,442	573,698	617,944	650,670	655,298	667,574
June.....	68,587	78,461	74,244	67,690	66,005	546,414	609,739	631,103	638,184	635,740
July.....	61,541	66,034	67,227	63,344	59,938	551,764	611,906	633,917	620,220	637,031
August.....	68,334	71,233	70,739	68,964	66,534	589,730	642,724	661,770	664,474	673,763
September.....	67,556	69,668	70,546	67,633	64,508	621,272	671,066	687,894	690,706	706,246
October.....	70,329	70,782	72,218	67,172	66,468	666,258	704,498	722,935	706,497	737,705
November.....	69,893	67,590	65,504	61,097	65,026	635,533	668,059	638,329	617,734	664,413
December.....	64,001	64,511	54,547	52,050	55,022	526,130	575,913	536,494	527,761	553,042

Source. American Railway Association.

## No. 448.—STEAM RAILWAY ACCIDENTS, BY CAUSES

NOTE.—See headnote to Table 449

Cause of accident	Killed					Injured				
	1916-1920, average	1921-1925, average	1926	1927	1928	1916-1920, average	1921-1925, average	1926	1927	1928
<b>All accidents</b> .....	8,682	8,618	7,090	6,821	6,509	176,693	141,688	130,285	104,799	85,561
<b>Train accidents</b> .....	684	394	360	266	272	8,457	4,409	3,916	3,072	2,873
Passengers.....	125	72	79	10	16	4,052	2,423	1,829	1,511	1,404
Employees.....	434	237	193	195	143	3,756	1,597	1,630	1,221	1,139
Other persons.....	125	85	88	81	113	649	389	457	340	330
<b>Causes</b>										
Collisions.....		139	152	80	70		2,071	2,319	1,557	1,192
Passengers.....		37	38	6	8		1,172	1,223	897	577
Employees.....		89	107	65	53		764	877	549	498
Other persons.....		14	7	9	9		135	219	111	117
Deraillments.....		197	141	122	129		2,109	1,362	1,271	1,496
Passengers.....		34	36	4	8		1,212	587	589	784
Employees.....		111	64	83	69		690	599	520	545
Other persons.....		52	41	35	52		208	176	162	167
Other causes.....		58	67	84	73		228	235	244	185
Passengers.....		2	5				39	19	25	43
Employees.....		36	22	47	21		143	154	152	96
Other persons.....		20	40	37	52		46	62	67	46
<b>Train-service accidents</b> .....	7,462	5,794	6,329	6,096	5,872	55,240	44,420	45,733	39,531	34,514
Passengers.....	179	100	73	69	67	3,368	3,155	2,632	2,375	2,055
Employees.....	2,002	1,088	1,181	1,039	895	42,903	31,563	32,572	26,936	22,640
Other persons.....	5,281	4,605	5,078	4,988	4,910	8,969	9,701	10,529	10,220	9,819
<b>Causes.</b>										
Coupling or uncoupling locomotives or cars.....		80	64	48	37		1,624	1,591	1,325	1,135
Coupling or uncoupling air hose.....		22	20	21	28		435	455	398	354
Operating locomotives.....		20	11	22	13		6,259	5,697	4,467	3,402
Operating hand brakes.....		30	29	32	25		2,090	2,474	2,158	1,836
Operating switches.....		2		1	1		965	1,142	802	684
Contact with fixed structures.....		69	67	71	45		836	706	625	521
Getting on or off cars or locomotives.....		484	447	428	368		9,125	9,351	7,810	6,729
Highway grade-crossing accidents <sup>1</sup> .....		1,997	2,442	2,328	2,496		5,826	6,896	6,482	6,573
Struck or run over, not at public crossings.....		2,415	2,579	2,487	2,253		2,079	2,121	1,959	1,639
Miscellaneous.....		1,157	670	658	606		15,595	15,300	13,505	11,641
<b>Nontrain accidents</b> .....	516	430	401	439	385	112,996	92,880	80,586	62,196	48,174
Passengers.....	( <sup>2</sup> )	14	3	3	2	( <sup>2</sup> )	634	688	674	568
Employees.....	419	329	301	332	289	110,865	90,630	77,701	60,066	46,467
Other persons.....	97	97	97	104	74	2,132	1,724	2,197	1,456	1,139

<sup>1</sup> Excludes persons killed and injured at highway grade crossings in connection with deraillments and miscellaneous train accidents.<sup>2</sup> Average for 1922 to 1924. Separate data not available for 1921.<sup>3</sup> No data available.

Source. Interstate Commerce Commission.

## No. 449.—PERSONS KILLED AND INJURED IN RAILWAY ACCIDENTS

NOTE.—For various reasons, including the fact that returns were required under different acts, the statistics are not strictly comparable. Prior to 1921, train accidents were those causing damage to railway property in excess of \$150 or any damage and a resulting casualty. Thereafter they were considered as such when the damage exceeded \$150 with or without a casualty. Where the damage is less than \$150 and there is a reportable casualty it is classified as a train-service accident. Figures for years 1911-1915 include industrial and other nontrain accidents to employees only, and for years 1908-1910 do not cover switching and terminal roads. Otherwise the statement covers all reportable accidents.

Yearly average or year ended—	Total		Passengers		Employees		Other persons		Trespassers <sup>1</sup>	
	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured
June 30										
1891-1895	6,821	35,313	292	2,967	2,315	27,051	4,214	5,294	-----	-----
1896-1900	6,946	42,248	222	3,237	2,054	32,793	4,670	6,219	-----	-----
1901-1905	9,326	72,943	892	7,894	3,249	57,209	5,686	7,640	-----	-----
1906	10,618	97,706	359	10,764	3,929	76,701	6,330	10,241	-----	-----
1907	11,839	111,016	610	13,041	4,534	87,644	6,695	10,331	-----	-----
1908	10,188	104,230	381	11,556	3,405	82,487	6,402	10,187	-----	-----
1909	8,722	95,626	253	10,311	2,610	75,006	5,859	10,309	-----	-----
1910	9,682	119,507	324	12,451	3,382	95,671	5,976	11,385	-----	-----
1911	10,396	150,159	299	12,042	3,602	126,039	6,495	12,078	-----	-----
1912	10,585	169,538	283	14,938	3,635	142,442	6,667	12,158	-----	-----
1913	10,964	200,308	350	15,130	3,715	171,417	6,899	13,761	-----	-----
1914	10,302	192,662	232	13,887	3,259	165,212	6,811	13,563	-----	-----
1915	8,621	162,040	199	10,914	2,152	138,092	6,270	13,034	-----	-----
Dec. 31										
1916	10,001	196,722	246	7,152	2,941	176,923	6,814	12,647	-----	-----
1917	10,087	194,805	301	7,582	3,199	174,247	6,387	12,976	-----	-----
1918	9,286	174,575	471	7,316	3,419	156,013	5,396	11,246	-----	-----
1919	6,978	149,053	273	7,456	2,138	131,018	4,687	10,579	-----	-----
1920	6,958	168,309	229	7,591	2,578	149,414	4,151	11,304	-----	-----
1921	5,996	120,685	205	5,584	1,446	104,530	4,345	10,571	-----	-----
1922	6,325	134,871	203	6,712	1,657	117,197	1,967	7,834	2,498	3,128
1923	7,385	171,712	143	6,463	2,026	152,678	2,397	9,279	2,519	3,292
1924	6,617	143,739	153	6,023	1,543	125,319	2,300	9,268	2,621	3,129
1925	6,766	137,435	176	5,643	1,599	119,224	2,347	9,640	2,644	2,928
1926	7,090	130,235	155	5,149	1,672	111,903	2,640	10,387	2,623	2,796
1927	6,821	104,799	82	4,560	1,566	88,223	2,519	9,200	2,654	2,996
1928	6,509	85,561	85	4,027	1,327	70,246	2,718	8,652	2,379	2,636

<sup>1</sup> Trespassers included with "other persons" prior to 1922.

## No. 450.—CONSUMPTION OF FUEL AND REPLACEMENTS OF RAILS AND TIES: CLASS I CARRIERS

NOTE.—Rails and ties laid in new construction are not included

	All districts			1927		
	1925	1926	1927	Eastern district	Southern district	Western district
Consumption of fuel by locomotives.						
Anthracite coal.....1,000 tons.	2,174	2,005	1,603	1,603	-----	-----
Bituminous coal.....do.	117,714	122,823	115,832	55,581	26,100	34,202
Fuel oil.....1,000 gallons.	2,457,827	2,459,678	2,429,938	11,802	49,550	2,368,584
Hardwood.....cords.	27,784	30,581	27,204	9,916	16,914	464
Softwood.....do.	82,998	74,240	67,394	19,638	2,600	45,156
Total, coal equivalent <sup>1</sup> .....1,000 tons.	135,420	140,426	132,945	57,274	26,409	49,262
Rails laid in replacement and betterment						
Total tonnage.....1,000 long tons.	3,485	3,818	3,819	1,662	752	1,405
Total charges <sup>2</sup> .....1,000 dollars.	126,437	139,599	138,732	57,351	28,000	53,931
Ties laid in previously constructed tracks						
Cross-ties.....thousands.	82,717	80,745	78,340	21,013	17,386	39,941
Switch and bridge ties.....1,000 board feet.	4 282,630	4 275,972	259,967	95,945	60,114	103,938
Total charges <sup>3</sup> .....1,000 dollars.	4 120,644	4 117,532	117,871	43,004	23,871	50,996

<sup>1</sup> The ratio of fuel oil to coal is based upon the experience of the various roads, 1 cord of hardwood equals two-thirds ton of coal; 1 cord of softwood equals one-half ton of coal.

<sup>2</sup> Totals include equivalent of a small amount of miscellaneous fuel.

<sup>3</sup> The total charges shown do not include the labor cost of applying the rails or ties.

<sup>4</sup> Figures do not include data for 1,435 linear feet of steel ties in 1925, and 450 in 1926.

Source of Tables 449 and 450: Interstate Commerce Commission.

## No. 451.—EXPRESS COMPANIES: INCOME ACCOUNT

NOTE.—Mileage covered by operations of express companies, 1928 Total, 269,076, steam road, 232,748; electric line, 2,930, steamboat line, 24,290, airplane, 7,748, stage line, 1,360 Of the total, the American Railway Express Co operates 258,766 miles and the Southeastern Express Co. 10,310 miles

[All figures in thousands of dollars]

Calendar year	Receipts for transportation	Paid for express privileges	Total operating revenues <sup>1</sup>	Operating expenses	Net operating revenues	Express taxes	Operating income <sup>2</sup>	Other income	Net income <sup>3</sup>
<b>American Railway Express Co.</b>									
1920-----	333,890	141,829	195,665	234,810	<sup>4</sup> 39,144	2,182	<sup>4</sup> 41,864	2,076	<sup>4</sup> 39,836
1921-----	294,604	113,491	184,897	182,265	2,631	2,095	508	2,074	2,309
1922-----	291,349	142,323	152,503	149,142	3,361	2,214	1,108	1,956	2,774
1923-----	309,579	155,736	157,444	154,446	2,998	2,138	834	1,851	2,460
1924-----	287,281	139,997	150,640	147,447	3,193	2,102	1,045	1,458	2,282
1925-----	290,303	143,832	149,715	146,433	3,282	2,059	1,195	1,088	2,184
1926-----	294,519	147,812	150,097	146,825	3,272	2,143	1,110	1,237	2,318
1927-----	284,513	139,494	148,730	145,467	3,263	2,197	1,050	1,204	2,207
1928-----	281,545	141,288	143,877	140,675	3,202	2,038	1,146	1,216	2,321
<b>Southeastern Express Co.:</b>									
1921 <sup>5</sup> -----	4,374	1,649	2,781	2,719	61	25	37	10	47
1922-----	7,103	3,320	3,380	3,750	130	79	50	20	70
1923-----	7,866	3,877	4,097	3,908	189	88	99	24	123
1924-----	7,910	3,755	4,268	4,103	165	109	51	19	70
1925-----	8,041	3,912	4,241	4,086	155	86	67	20	87
1926-----	8,257	4,021	4,357	4,196	161	83	76	24	100
1927-----	8,176	3,971	4,342	4,188	154	88	62	28	90
1928-----	7,870	3,738	4,268	4,126	142	100	40	30	70

<sup>1</sup> Includes revenues from sources other than transportation

<sup>2</sup> Deducting, besides taxes, a small amount of uncollectible revenue.

<sup>3</sup> Sum of two preceding columns less small deductions

<sup>4</sup> Deficit

<sup>5</sup> Result of operations for eight months ended Dec. 31, 1921.

## No. 452.—THE PULLMAN CO.: ABSTRACT OF OPERATIONS

[All money figures in thousands of dollars]

Year ended—	Gross revenues, car operations	Association revenues, debtor	Contract revenues, debtor <sup>1</sup>	Expenses, car operations		Net revenues, car operation	Operating income	Revenue passengers carried	
				Total	Conducting car operations			Thousands	Number per car day
<b>June 30:</b>									
1910-----	35,334	66	893	23,962	(?)	11,372	13,151	20,203	14
1911-----	35,698	508	1,517	25,917	10,683	9,781	10,471	21,655	12
1912-----	37,090	486	1,410	26,258	11,119	10,832	11,788	22,915	12
1913-----	40,103	513	2,085	26,713	11,785	13,390	12,417	24,864	12
1914-----	41,499	491	1,969	28,116	12,376	13,383	12,270	26,189	12
1915-----	38,723	467	1,954	26,633	11,716	12,090	10,816	24,252	12
1916-----	43,347	487	3,239	28,836	12,762	14,511	13,017	26,782	12
<b>Dec 31:</b>									
1916-----	44,203	482	2,694	30,879	13,457	13,324	11,745	27,866	12
1917-----	51,777	102	4,498	35,449	16,047	16,328	12,469	32,261	14
1918-----	49,967	-----	3,918	40,593	20,202	9,374	7,763	28,751	13
1919-----	69,071	-----	31	48,618	26,392	20,453	19,194	37,346	15
1920-----	72,124	-----	13,155	61,031	30,805	11,093	9,304	39,255	16
1921-----	64,439	-----	7,079	64,744	28,136	<sup>1</sup> 805	<sup>2</sup> 8,277	31,225	13
1922-----	65,582	-----	8,379	53,029	26,022	12,553	8,540	31,748	13
1923-----	72,576	-----	8,555	55,885	27,365	16,691	12,289	34,249	13
1924-----	72,758	-----	9,075	61,009	30,023	11,149	7,755	34,086	12
1925-----	80,198	-----	8,873	63,513	32,247	16,685	12,546	35,526	12
1926-----	81,834	-----	9,463	68,204	35,009	13,630	9,565	36,073	11
1927-----	80,952	-----	8,906	66,503	34,848	14,449	10,360	35,197	11
1928-----	80,846	-----	8,604	66,656	34,935	14,190	10,938	33,924	11

<sup>1</sup> Represents amounts due other carriers under the provisions of definite contracts

<sup>2</sup> Not separated

<sup>3</sup> Deficit.

Source of Tables 451 and 452: Interstate Commerce Commission.

**No. 453.—ALASKAN GOVERNMENT RAILROAD TRAFFIC: ANALYSIS OF STATISTICS OF PASSENGER AND FREIGHT SERVICES, YEARS ENDED JUNE 30**

	1927	1928		1927	1928
Road mileage operated—monthly average.....	543.7	543.7	<b>FREIGHT TRAFFIC</b>		
<b>PASSENGER TRAFFIC</b>			Freight train-miles.....	99,295	97,341
Passenger train-miles <sup>1</sup> .....	29,919	38,598	Mixed train-miles.....	124,617	112,351
Mixed train-miles.....	124,617	112,351	Loaded cars, 1 mile, freight and mixed trains.....	1,528,507	1,559,705
Passenger car-miles, passenger trains.....	29,919	38,598	Empty cars, 1 mile, freight and mixed trains.....	923,468	961,059
Passenger car-miles, mixed train.....	211,870	210,185	All cars, 1 mile.....	2,451,975	2,520,764
Total revenue passengers carried.....	53,609	51,587	Tons of revenue freight carried.....		
Revenue passengers carried 1 mile.....	3,628,300	3,859,509	Coal.....	41,059	49,141
Total passenger revenue.....	\$207,148	\$221,363	Miscellaneous.....	41,357	47,836
Average revenue per passenger per mile.....	\$0.05709	\$0.05736	Tons of revenue freight carried 1 mile.....	16,939,211	19,712,037
			Total freight revenue.....	\$811,507	\$875,298
			Average revenue per ton per mile.....	\$0.04791	\$0.04440

<sup>1</sup> Motor miles

Source Department of the Interior.

**No. 454.—ELECTRIC RAILWAYS: SUMMARY OF OPERATIONS**

NOTE—This table does not include the electric operations of steam railway companies. Many electric railway companies also engage in other operations, especially in the sale of current for light and power; wherever possible, such light and power business has been excluded, but for numerous companies this is impossible. No distinction can be made in the statistics between purely urban street railways and suburban and interurban lines. The insignificant amount of business still conducted by cable and animal traction is included, as well as some operations conducted by primarily electric railways by means of steam traction and gasoline engine cars. In the trackage statistics of this table, each track of a double or multiple line is counted separately.

	1890	1902	1907	1912	1917	1922
Number of companies.....	789	987	1,236	1,260	<sup>1</sup> 1,307	<sup>1</sup> 1,200
Miles of all track operated.....	8,123.02	22,576.99	34,381.51	41,064.82	44,835.37	43,931.86
Operated by:						
Electricity.....	1,261.97	21,901.53	34,037.64	40,808.39	44,676.51	43,789.08
Cable.....	438.31	240.69	61.71	55.41	45.32	45.90
Animal traction.....	5,661.44	259.10	136.11	57.52	11.16	4.02
Steam.....	711.30	169.61	105.06	76.34	41.03	1.06
Gasoline-engine cars.....		<sup>2</sup> 6.06	40.99	66.16	55.61	<sup>3</sup> 86.06
Gravity.....					5.74	5.74
Value of road and equipment (thousand dollars).....	389,357	2,167,634	3,637,669	4,596,563	5,136,442	5,058,762
Number of employees.....	70,764	140,769	221,429	282,461	294,826	300,523
Number of passenger cars.....	32,505	60,290	70,016	76,162	79,914	77,301
Revenue passengers, including pay transfer <sup>4</sup> (thousands).....	2,023,010	4,774,212	7,441,115	9,545,555	11,304,660	12,666,558
Operating revenues.....	\$90,617,211	\$247,553,999	\$418,187,858	\$567,511,704	\$709,825,092	\$1,016,719,092
Operating expenses.....	\$62,011,185	\$142,312,597	\$251,399,252	\$332,896,356	\$452,594,654	\$727,795,168
Operating ratio (per cent).....	68.4	57.5	60.1	58.7	63.8	71.6

<sup>1</sup>Includes companies maintaining separate organizations, though leased to and controlled through stock ownership by other companies, largely in Pennsylvania. In 1912 and 1907 these companies were treated as merged and not included in the number reported.

<sup>2</sup>Compressed air.

<sup>3</sup>Includes 1.26 miles operated by tractor.

<sup>4</sup>Not including motor-bus passengers.

Source Bureau of the Census, Department of Commerce.

# No. 455.—ELECTRIC RAILWAYS: MILEAGE, EQUIPMENT, OUTPUT OF ELECTRICITY, TRAFFIC, EMPLOYEES, AND SALARIES AND WAGES

NOTE.—See headnote to Table 454

	All companies				Surface lines, 1922	Subway and elevated lines, 1922
	1907	1912	1917	1922		
Number of operating companies.....	945	975	943	858	851	
Miles of all track, total <sup>1</sup> .....	84,403.56	41,064.82	44,835.37	43,931.86	43,073.93	857.93
First track (length of line).....	25,547.19	30,437.86	32,547.58	31,264.28	(?)	(?)
Second and other main tracks.....	6,938.68	7,895.76	8,899.09	9,100.07	(?)	(?)
Sidings and turnouts.....	1,917.69	2,731.20	1,918.16	2,085.76	(?)	(?)
Car houses, yards, etc.....			1,470.54	1,481.77	(?)	(?)
Electric track with.....						
Overhead trolley <sup>2</sup> .....	32,501.71	38,958.06	42,490.71	41,417.91	41,367.18	50.73
Third rail <sup>3</sup> .....	1,209.78	1,395.13	1,689.37	1,893.11	1,065.55	827.56
Conduit trolley.....	322.70	351.72	361.54	421.30	421.30	
Storage battery.....	8.00	64.67	112.64	37.61	37.61	
Gas-electric motor.....	22.50	38.81	24.43	40.11	40.11	
Number of cars, total.....	83,641	94,016	102,603	99,255	91,159	8,096
Passenger.....	70,016	76,162	79,814	77,301	69,397	7,904
Express, freight, baggage, and mail.....	5,669	7,794	11,534	11,406	11,406	
Service cars.....	7,956	10,060	11,155	10,548	10,356	192
Number of electric locomotives.....	117	277	357	404	404	
Horsepower of power-plant equipment, total.....	2,519,823	3,661,355	4,200,192	4,119,306	(?)	(?)
Steam turbines.....	535,404	1,462,800	2,322,692	2,856,006	(?)	(?)
Other steam engines.....	1,876,123	1,703,088	1,221,223	827,027	(?)	(?)
Internal-combustion engines.....	16,335	24,190	28,294	32,495	(?)	(?)
Water wheels and turbines.....	91,961	471,307	627,983	403,778	(?)	(?)
Kilowatt capacity of generators.....	1,723,416	2,505,316	2,924,779	2,972,834	(?)	(?)
Electric energy (1,000 kilowatt hours).....		9,020,018	12,187,851	12,405,053	(?)	(?)
Generated.....	4,758,130	6,002,659	7,240,503	6,473,451	(?)	(?)
Purchased.....	(?)	3,017,359	4,947,348	5,931,602	(?)	(?)
Passengers carried, total (thousands).....	9,533,081	12,135,342	14,506,915	15,331,400	13,586,232	1,745,168
Revenue passengers, including pay transfer.....	7,441,115	9,545,555	11,804,661	12,666,558	10,923,274	1,743,284
Free-transfer passengers.....	1,995,658	2,423,918	3,021,223	2,496,570	2,662,958	1,884
Free passengers.....	96,308	165,869	181,116	168,272		
Revenue car mileage, total (thousands).....	1,617,731	1,921,620	2,139,802	2,124,523	1,821,177	303,346
Passenger.....	1,583,831	1,885,870	2,087,819	2,068,294	1,764,948	303,346
Express, freight, and mail.....	33,900	35,750	51,983	56,229	56,229	
Average number of revenue passengers.....						
Per mile of all track <sup>4</sup> .....	216,522	232,556	252,323	288,600	253,842	2,031,965
Per passenger car hour.....	43.06	43.38	53.69	61.14	(?)	(?)
Revenue car hours, total (thousands).....	151,339	190,478	203,057	201,838		
Passenger.....	148,678	187,590	199,053	197,146		
Express, freight, and mail.....	2,661	2,888	4,004	4,692		
Salaried employees:						
Number.....	11,700	23,271	27,151	30,239	28,867	1,372
Salaries.....	\$12,909,466	\$26,128,786	\$33,909,674	\$57,489,091	\$54,481,024	\$3,008,067
Wage earners:						
Number.....	269,729	259,190	267,675	270,284	244,277	26,007
Wages.....	\$138,081,633	\$174,762,153	\$233,830,638	\$388,191,044	\$347,263,108	\$40,987,936
Conductors, motormen, and one-man car and bus operators—						
Number.....	115,518	131,321	136,184	130,628	126,717	10,3,911
Wages.....	\$75,765,054	\$95,451,625	\$127,222,144	\$205,238,478	\$197,131,208	\$8,107,270
Other wage earners—						
Number.....	94,211	127,869	131,491	139,656	117,560	22,096
Wages.....	\$62,376,579	\$79,310,528	\$106,108,544	\$182,952,566	\$150,071,900	\$32,880,666

<sup>1</sup> Includes track lying outside the United States (1922 and 1917, 27.06 miles, 1912, 31.91, and 1907, 27.52 miles)<sup>2</sup> Not shown separately.<sup>3</sup> Includes 20.96 miles in 1922 and 2.18 miles in 1917 operated by both overhead trolley and third rail.<sup>4</sup> Includes 0.60 mile operated by both overhead trolley and third rail<sup>5</sup> Includes 20.36 miles operated by both overhead trolley and third rail<sup>6</sup> Includes 857 units of 43,344 horsepower reported as auxiliary engines<sup>7</sup> No data.<sup>8</sup> In addition there were 16,120,000 passengers carried by 370 motor busses operated by electric railway companies.<sup>9</sup> Exclusive of idle track and freight and switching roads<sup>10</sup> Exclusive of guards on subway and elevated trains, who are classified under "All other wage earners."

Source: Bureau of the Census, Department of Commerce.



# No. 455.—ELECTRIC RAILWAYS: MILEAGE, EQUIPMENT, OUTPUT OF ELECTRICITY, TRAFFIC, EMPLOYEES, AND SALARIES AND WAGES

NOTE.—See headnote to Table 454

	All companies				Surface lines, 1922	Subway and elevated lines, 1922
	1907	1912	1917	1922		
Number of operating companies.....	945	975	943	858	851	
Miles of all track, total <sup>1</sup> .....	84,403.56	41,064.82	44,835.37	43,931.86	43,073.93	857.93
First track (length of line).....	25,547.19	30,437.86	32,547.58	31,264.28	(?)	(?)
Second and other main tracks.....	6,938.68	7,895.76	8,899.09	9,100.07	(?)	(?)
Sidings and turnouts.....	1,917.69	2,731.20	1,918.16	2,085.76	(?)	(?)
Car houses, yards, etc.....			1,470.54	1,481.77	(?)	(?)
Electric track with.....						
Overhead trolley <sup>2</sup> .....	32,501.71	38,958.06	42,490.71	41,417.91	41,367.18	50.73
Third rail <sup>3</sup> .....	1,209.78	1,395.13	1,689.37	1,893.11	1,065.55	827.56
Conduit trolley.....	322.70	351.72	361.54	421.30	421.30	
Storage battery.....	8.00	64.67	112.64	37.61	37.61	
Gas-electric motor.....	22.50	38.81	24.43	40.11	40.11	
Number of cars, total.....	83,641	94,016	102,603	99,255	91,159	8,096
Passenger.....	70,016	76,162	79,814	77,301	69,397	7,904
Express, freight, baggage, and mail.....	5,669	7,794	11,534	11,406	11,406	
Service cars.....	7,956	10,060	11,155	10,548	10,356	192
Number of electric locomotives.....	117	277	357	404	404	
Horsepower of power-plant equipment, total.....	2,519,823	3,661,355	4,200,192	4,119,306	(?)	(?)
Steam turbines.....	535,404	1,462,800	2,322,692	2,856,006	(?)	(?)
Other steam engines.....	1,876,123	1,703,088	1,221,223	827,027	(?)	(?)
Internal-combustion engines.....	16,335	24,190	28,294	32,495	(?)	(?)
Water wheels and turbines.....	91,961	471,307	627,983	403,778	(?)	(?)
Kilowatt capacity of generators.....	1,723,416	2,505,316	2,924,779	2,972,834	(?)	(?)
Electric energy (1,000 kilowatt hours).....		9,020,018	12,187,851	12,405,053	(?)	(?)
Generated.....	4,758,130	6,002,659	7,240,503	6,473,451	(?)	(?)
Purchased.....	(?)	3,017,359	4,947,348	5,931,602	(?)	(?)
Passengers carried, total (thousands).....	9,533,081	12,135,342	14,506,915	15,331,400	13,586,232	1,745,168
Revenue passengers, including pay transfer.....	7,441,115	9,545,555	11,804,661	12,666,558	10,923,274	1,743,284
Free-transfer passengers.....	1,995,658	2,423,918	3,021,223	2,496,570	2,662,958	1,884
Free passengers.....	96,308	165,869	181,116	168,272		
Revenue car mileage, total (thousands).....	1,617,731	1,921,620	2,139,802	2,124,523	1,821,177	303,346
Passenger.....	1,583,831	1,885,870	2,087,819	2,068,294	1,764,948	303,346
Express, freight, and mail.....	33,900	35,750	51,983	56,229	56,229	
Average number of revenue passengers.....						
Per mile of all track <sup>4</sup> .....	216,522	232,556	252,323	288,600	253,842	2,031,965
Per passenger car hour.....	43.06	43.38	53.69	61.14	(?)	(?)
Revenue car hours, total (thousands).....	151,339	190,478	203,057	201,838		
Passenger.....	148,678	187,590	199,053	197,146		
Express, freight, and mail.....	2,661	2,888	4,004	4,692		
Salaried employees:						
Number.....	11,700	23,271	27,151	30,239	28,867	1,372
Salaries.....	\$12,909,466	\$26,128,786	\$33,909,674	\$57,489,091	\$54,481,024	\$3,008,067
Wage earners:						
Number.....	269,729	259,190	267,675	270,284	244,277	26,007
Wages.....	\$138,081,633	\$174,762,153	\$233,830,638	\$388,191,044	\$347,263,108	\$40,987,936
Conductors, motormen, and one-man car and bus operators—						
Number.....	115,518	131,321	136,184	130,628	126,717	10 3,911
Wages.....	\$75,765,054	\$95,451,625	\$127,222,144	\$205,238,478	\$197,131,208	\$8,107,270
Other wage earners—						
Number.....	94,211	127,869	131,491	139,656	117,560	22,096
Wages.....	\$62,376,579	\$79,310,528	\$106,108,544	\$182,952,566	\$150,071,900	\$32,880,666

<sup>1</sup> Includes track lying outside the United States (1922 and 1917, 27.06 miles, 1912, 31.91, and 1907, 27.52 miles)<sup>2</sup> Not shown separately.<sup>3</sup> Includes 20.96 miles in 1922 and 2.18 miles in 1917 operated by both overhead trolley and third rail.<sup>4</sup> Includes 0.60 mile operated by both overhead trolley and third rail<sup>5</sup> Includes 20.36 miles operated by both overhead trolley and third rail<sup>6</sup> Includes 857 units of 43,344 horsepower reported as auxiliary engines<sup>7</sup> No data.<sup>8</sup> In addition there were 16,120,000 passengers carried by 370 motor busses operated by electric railway companies.<sup>9</sup> Exclusive of idle track and freight and switching roads<sup>10</sup> Exclusive of guards on subway and elevated trains, who are classified under "All other wage earners."

Source: Bureau of the Census, Department of Commerce.

## No. 457.—ELECTRIC RAILWAYS:

NOTE.—See headnote to Table 454 The track mileage represents that actually lying in each State, but conducted in other States The differences among the States in the relation of passengers carried to interurban as against purely urban traffic The information obtained in regard to motor-bus operations age represents passenger, express, freight, and mail-car mileage

Division and State	Miles of track lying in State or division <sup>1</sup>				Revenue passengers carried by companies domiciled in State (in thousands)				
	1907	1912	1917	1922	1907	1912	1917	1922	
								Car lines	Motor bus
United States ..	34,354	41,033	44,808	43,905	7,441,115	9,545,555	11,304,660	12,686,558	12,791
New England .....	4,863	5,299	5,558	5,049	875,116	1,051,182	1,242,077	1,133,706	3,400
Maine .....	418	530	572	566	36,730	47,049	55,463	50,010	-----
New Hampshire .....	268	268	269	263	20,087	23,673	23,405	19,650	-----
Vermont .....	113	121	126	117	7,103	8,136	8,739	6,950	-----
Massachusetts .....	2,851	2,951	3,056	2,688	597,470	705,918	834,529	731,999	448
Rhode Island .....	431	435	454	403	91,172	94,086	113,191	142,156	853
Connecticut .....	731	993	1,080	1,011	122,554	172,300	206,740	182,941	2,099
Middle Atlantic .....	8,891	10,064	10,604	10,519	2,839,019	3,513,721	4,225,287	4,978,142	88
New York .....	3,809	4,486	4,773	4,737	1,657,687	2,126,964	2,492,325	3,090,878	-----
New Jersey .....	1,320	1,309	1,368	1,342	269,099	358,858	432,875	466,811	8
Pennsylvania .....	3,762	4,270	4,462	4,440	912,233	1,029,899	1,300,087	1,420,453	80
East North Central .....	10,353	11,884	12,703	12,431	1,607,895	2,159,621	2,712,625	2,977,494	3,933
Ohio .....	3,671	3,999	4,236	3,974	480,844	632,332	811,913	870,160	2,004
Indiana .....	1,929	2,323	2,356	2,305	137,547	173,019	191,132	241,871	2
Illinois .....	2,754	3,186	3,441	3,416	703,493	932,668	1,096,804	1,127,719	386
Michigan .....	1,324	1,526	1,768	1,817	183,239	286,956	447,780	557,549	351
Wisconsin .....	676	849	901	919	102,772	134,646	164,996	180,185	1,190
West North Central .....	2,455	3,031	3,607	3,604	615,631	787,301	902,369	941,841	1,028
Minnesota .....	438	538	656	681	136,122	186,913	235,943	262,740	41
Iowa .....	641	784	1,015	999	61,440	93,418	103,898	95,494	-----
Missouri .....	867	959	1,094	1,098	346,362	402,210	442,756	463,618	985
North Dakota .....	14	19	24	21	1,872	2,862	2,841	3,378	-----
South Dakota .....	5	22	24	17	126	1,657	1,915	2,023	-----
Nebraska .....	184	214	211	206	49,323	64,709	74,560	76,846	-----
Kansas .....	306	494	582	581	20,386	35,527	40,456	37,742	-----
South Atlantic .....	2,244	2,900	3,221	3,191	487,962	616,735	747,562	830,216	298
Delaware .....	105	99	102	96	15,724	18,024	26,047	20,860	-----
Maryland .....	552	720	775	758	152,268	186,828	228,634	248,594	290
District of Columbia .....	160	188	195	199	91,569	114,100	125,536	155,952	-----
Virginia .....	513	561	581	554	77,300	91,980	112,814	116,289	-----
West Virginia .....	208	330	395	422	42,750	52,842	76,163	91,079	-----
North Carolina .....	106	190	228	216	14,086	21,241	26,915	29,964	-----
South Carolina .....	131	228	314	301	15,695	17,873	25,042	20,211	-----
Georgia .....	351	417	450	449	59,701	86,601	93,640	105,950	8
Florida .....	118	165	183	197	18,889	27,236	32,771	41,317	-----
East South Central .....	1,075	1,291	1,457	1,477	220,897	288,785	292,004	308,021	-----
Kentucky .....	402	502	516	517	85,859	103,512	109,105	115,594	-----
Tennessee .....	292	361	447	495	73,747	91,896	101,825	110,369	-----
Alabama .....	294	309	369	368	52,197	62,494	70,343	73,646	-----
Mississippi .....	86	119	124	98	9,084	10,883	10,731	8,412	-----
West South Central .....	840	1,372	1,704	1,724	183,338	270,746	313,203	380,580	1,507
Arkansas .....	82	114	122	120	17,145	24,304	26,288	29,305	649
Louisiana .....	229	235	321	305	85,194	94,053	105,753	123,337	-----
Oklahoma .....	100	252	302	324	9,502	22,121	30,766	35,402	858
Texas .....	419	721	950	975	81,497	130,268	150,401	187,536	-----
Mountain .....	630	1,048	1,311	1,291	113,304	154,224	162,232	148,708	42
Montana .....	69	99	121	111	13,862	15,351	22,197	15,255	-----
Colorado .....	317	468	467	431	73,458	86,597	84,624	81,613	-----
New Mexico .....	10	11	11	11	1,029	951	1,486	1,383	42
Arizona .....	31	46	53	44	1,902	4,554	7,483	5,474	-----
Idaho .....	73	129	155	149	1,827	4,170	3,279	3,256	-----
Wyoming .....	-----	23	23	23	-----	1,399	1,457	684	-----
Nevada .....	7	11	12	5	620	750	805	480	-----
Utah .....	123	260	469	517	21,106	40,452	40,891	40,561	-----
Pacific .....	3,003	4,148	4,847	4,619	487,943	723,270	707,311	967,892	2,497
Washington .....	730	991	1,022	954	110,507	126,687	145,922	142,745	684
Oregon .....	259	549	603	612	49,459	75,842	67,223	71,804	-----
California .....	2,013	2,605	3,022	3,053	327,977	520,741	494,166	753,313	1,813

<sup>1</sup> Mileage figures expressed to nearest mile, original figures to nearest hundredth.

Source Bureau of Census, Department of Commerce.

## OPERATING STATISTICS, BY STATES

all other data relate to the total operations of companies domiciled in the State, part of which may be passenger revenue and in other similar ratios are largely due to differences in the relative importance of related only to those lines which formed integral parts of electric-railway companies. Revenue per mile-

Passenger revenue of companies domiciled in State (thousands of dollars)			Revenue car miles operated by companies domiciled in State (thousands)			Electric kilowatt hours generated or purchased by companies (thousands) <sup>2</sup>			Division and State
1912	1917	1922	1912	1917	1922	1912	1917	1922	
502,652	609,130	854,665	1,921,620	2,139,802	2,124,523	9,020,018	12,187,851	12,405,053	United States.
52,521	63,944	87,704	191,451	209,504	173,083	772,103	999,938	856,732	New England.
2,458	3,055	4,243	11,124	12,255	11,027	74,967	102,270	123,069	Maine
1,202	1,191	1,585	4,726	3,890	4,006	17,555	16,498	17,668	New Hampshire.
423	487	451	1,776	1,865	1,406	8,989	21,755	15,330	Vermont.
35,146	42,442	58,521	125,894	137,560	105,162	485,020	634,368	507,566	Massachusetts.
13,292	16,769	22,904	15,085	17,204	16,244	66,619	80,610	69,521	Rhode Island.
			32,846	36,730	35,238	118,353	144,437	123,578	Connecticut
180,634	217,573	297,660	663,589	705,661	710,550	2,717,966	3,305,150	3,582,761	Middle Atlantic.
110,700	128,286	168,451	411,008	432,267	442,114	1,701,299	2,068,249	2,317,327	New York.
17,616	21,561	30,863	60,994	68,966	69,214	216,670	267,944	257,563	New Jersey.
52,318	67,726	98,246	191,587	204,628	199,222	799,997	968,957	1,007,871	Pennsylvania.
118,128	148,331	213,365	474,239	543,029	546,337	2,263,984	3,205,628	3,183,181	East North Central.
32,672	42,631	55,359	137,545	153,469	141,247	692,017	1,195,401	1,057,656	Ohio.
12,796	14,079	20,286	47,879	52,214	58,552	277,337	359,504	393,750	Indiana.
49,815	59,941	93,817	201,027	225,445	230,127	950,837	1,197,748	1,248,193	Illinois.
15,877	23,025	31,473	61,189	82,294	83,571	218,892	303,852	303,984	Michigan.
6,968	8,055	12,430	26,596	29,607	32,840	124,881	149,121	178,578	Wisconsin.
40,854	48,538	66,880	152,347	173,886	174,012	696,396	958,196	905,889	West North Central.
9,420	12,159	15,850	32,793	38,794	36,066	153,369	176,330	168,131	Minnesota.
5,259	6,138	7,850	22,122	25,293	29,152	103,564	184,534	249,323	Iowa.
20,216	23,001	34,137	72,573	80,670	80,738	361,995	485,181	386,272	Missouri.
222	245	342	661	709	926	851	1,095	1,583	North Dakota.
3,277	3,784	4,930	12,613	14,018	13,980	39,660	52,583	61,215	South Dakota.
2,460	3,181	3,771	11,111	13,819	12,571	36,151	52,365	38,347	Nebraska.
30,921	39,395	58,563	124,591	142,658	153,154	643,079	1,265,465	1,553,814	South Atlantic.
15,480	19,225	30,995	3,967	4,123	3,883	22,512	49,041	72,552	Delaware.
			34,439	40,328	42,401	134,350	186,992	218,553	Maryland.
			18,558	18,538	21,037	84,892	98,905	134,842	District of Columbia.
4,532	6,078	7,540	19,903	21,968	24,312	123,110	231,491	347,532	Virginia.
3,034	4,502	6,570	11,707	14,623	15,238	67,168	112,161	166,287	West Virginia.
1,177	1,323	2,068	5,998	6,725	6,887	41,822	86,247	50,563	North Carolina.
929	1,750	1,755	4,658	8,236	7,719	17,876	103,864	65,907	South Carolina.
4,395	4,893	7,521	19,217	20,908	22,619	125,820	364,691	448,304	Georgia.
1,374	1,624	2,414	6,144	7,209	9,058	25,529	32,073	48,974	Florida.
13,868	15,127	20,840	58,056	64,293	58,389	290,348	411,335	389,199	East South Central.
6,392	5,895	7,643	22,274	22,865	20,372	88,875	101,774	80,978	Kentucky.
4,664	5,217	7,735	18,936	21,401	19,122	100,072	170,036	131,742	Tennessee.
3,004	3,425	4,812	13,313	16,037	15,820	87,751	116,223	166,282	Alabama.
308	590	650	3,533	3,990	3,075	13,650	23,302	10,187	Mississippi.
14,790	18,663	26,529	61,617	77,411	80,081	245,080	375,889	543,758	West South Central.
1,183	1,279	1,781	5,594	5,917	5,735	27,364	37,442	60,402	Arkansas.
4,725	5,334	9,388	21,812	23,883	20,429	109,350	177,777	209,374	Louisiana.
1,254	1,900	3,127	6,143	7,979	9,350	20,477	27,522	45,884	Oklahoma.
7,628	10,150	15,253	28,068	39,682	44,571	87,889	173,248	234,140	Texas.
8,061	9,287	11,459	30,150	34,120	32,739	206,842	181,910	193,463	Mountain.
800	1,150	951	2,901	3,592	2,979	10,227	17,927	18,204	Montana.
4,521	4,409	6,222	17,202	17,031	15,746	106,373	111,508	120,175	Colorado.
282	439	382	309	453	410	466	389	608	New Mexico.
451	424	388	1,019	1,277	981	2,999	5,149	2,499	Arizona.
			1,420	1,488	1,323	5,108	5,743	5,540	Idaho.
			381	308	253	1,036	844	788	Wyoming.
2,007	2,845	3,516	270	236	108	652	538	283	Nevada.
			6,648	9,735	10,939	80,011	39,812	45,256	Utah.
42,875	42,292	68,463	165,580	189,060	196,168	1,184,240	1,489,242	1,190,288	Pacific.
7,283	8,134	12,273	29,517	36,128	36,299	508,794	743,746	266,632	Washington.
4,578	4,231	6,285	19,509	22,529	21,341	182,547	233,153	339,636	Oregon.
31,014	29,927	49,905	116,554	130,403	138,528	492,899	512,343	584,020	California.

<sup>2</sup> Includes duplication of energy purchased from electric-railway companies; amount not ascertainable.

## No. 458.—ELECTRIC RAILWAYS: MILEAGE AND CARS AND BUSES OPERATED

NOTE.—This table includes mileage and equipment of city interurban, and electrified steam railroads in continental United States. Steam locomotives and cars owned by electric railways and used primarily for steam service are omitted. All data beginning 1924 and data for busses in 1923 are about December, all other data are about July

Year, division, and State	Companies operating	Miles of all track <sup>1</sup>	Passenger cars		Freight cars		Service cars	Other cars	Electric locomotives	Busses operated by electric railways	
			Motor	Trailer	Motor	Trailer				Number	Mileage <sup>1</sup>
1915	1,027	46,454	79,007	3,048	538	1,884	14,036	380	512	(2)	(2)
1920	831	47,705	77,722	6,027	1,215	7,441	5,723	6,809	751	(2)	(2)
1921	838	47,555	77,921	6,142	1,324	7,712	7,005	4,754	760	129	(2)
1922	827	47,150	75,442	7,624	1,375	7,903	8,761	2,795	772	300	(2)
1923	821	47,283	75,249	7,423	1,712	8,442	8,971	2,435	814	1,173	(2)
1924	769	46,837	75,678	6,768	1,790	9,016	9,092	2,491	799	2,394	(2)
1925	759	46,750	74,898	6,737	1,760	9,138	9,004	2,370	809	5,207	(2)
1926	734	46,624	73,694	7,050	1,960	9,850	8,731	2,600	870	7,505	15,300
1927	703	46,149	72,030	7,355	2,265	10,500	8,474	2,950	910	8,864	17,500
1928	688	45,272	69,862	7,860	2,488	11,037	8,208	3,286	948	10,719	22,032
<b>New England</b>	<b>68</b>	<b>5,068</b>	<b>6,689</b>	<b>426</b>	<b>100</b>	<b>88</b>	<b>1,017</b>	<b>322</b>	<b>159</b>	<b>964</b>	<b>1,343</b>
Maine	12	472	345	11	27	69	103	36	3	5	25
New Hampshire	11	125	182			1	27	11	2	39	(2)
Vermont	5	49	30		2				3	(2)	(2)
Massachusetts	26	2,700	4,081	289	41	13	749	146	4	560	809
Rhode Island	3	405	729	21	30	4	125	124	3	105	129
Connecticut	9	1,317	1,322	105				5	144	221	380
<b>Middle Atlantic</b>	<b>167</b>	<b>10,854</b>	<b>27,400</b>	<b>3,637</b>	<b>429</b>	<b>236</b>	<b>2,732</b>	<b>1,317</b>	<b>213</b>	<b>3,599</b>	<b>5,296</b>
New York	75	5,688	17,867	3,272	276	154	1,487	110	208	739	568
New Jersey	13	1,238	2,477	100	3		326	155		1,883	2,044
Pennsylvania	79	3,928	7,056	265	150	82	909	1,052	5	977	2,684
<b>East North Central</b>	<b>161</b>	<b>11,659</b>	<b>15,041</b>	<b>2,052</b>	<b>1,162</b>	<b>3,199</b>	<b>1,936</b>	<b>717</b>	<b>153</b>	<b>3,024</b>	<b>7,113</b>
Ohio	48	3,304	3,623	603	307	452	634	292	25	890	1,645
Indiana	25	2,649	1,724	123	410	567	398	140	26	456	1,421
Illinois	50	3,357	6,254	973	365	2,026	724	180	68	424	1,084
Michigan	23	1,549	2,246	298	63	153	137	102	25	965	1,695
Wisconsin	15	800	1,194	55	17	1	43	3	9	289	1,268
<b>West North Central</b>	<b>69</b>	<b>3,603</b>	<b>5,067</b>	<b>299</b>	<b>111</b>	<b>1,320</b>	<b>731</b>	<b>109</b>	<b>62</b>	<b>581</b>	<b>1,644</b>
Minnesota	8	700	1,197	26	1		102		2	117	139
Iowa	23	1,013	661	53	13	1,297	180	23	37	120	1,028
Missouri	15	1,162	2,379	187	17	22	342	30	7	166	339
North Dakota	3	25	41				9	4		4	7
South Dakota	1	14	19				2	4		19	32
Nebraska	4	192	431	10	4	1	63	36	2	30	35
Kansas	15	497	339	23	76		33	12	14	125	64
<b>South Atlantic</b>	<b>59</b>	<b>3,598</b>	<b>4,849</b>	<b>326</b>	<b>92</b>	<b>323</b>	<b>513</b>	<b>334</b>	<b>84</b>	<b>988</b>	<b>3,114</b>
Delaware	1	81	106				15			25	35
Maryland	5	692	1,433	156	28	95	152	179	3	193	2,072
Dist of Columbia	5	417	864	40	6	20	99	29	6	128	207
Virginia	13	671	706	87	12	7	44	52	38	258	161
West Virginia	10	659	387		25	27	60	11	19	165	446
North Carolina	8	322	205	14	4	159	39	5	17	57	32
South Carolina	4	60	86		3		8			9	33
Georgia	6	477	677	28	5	11	65	43	1	53	38
Florida	7	219	405		9	4	31	15		100	90
<b>East South Central</b>	<b>32</b>	<b>1,322</b>	<b>1,825</b>	<b>190</b>	<b>50</b>	<b>1</b>	<b>254</b>	<b>72</b>	<b>3</b>	<b>237</b>	<b>189</b>
Kentucky	7	498	733	71	24		128	19		159	73
Tennessee	9	453	629	53	9	1	60	53	3	74	74
Alabama	10	344	427	66	17		64			13	17
Mississippi	6	27	36				2			18	5
<b>West South Central</b>	<b>50</b>	<b>1,840</b>	<b>2,538</b>	<b>137</b>	<b>124</b>	<b>78</b>	<b>263</b>	<b>262</b>	<b>16</b>	<b>512</b>	<b>618</b>
Arkansas	7	133	229	10			20	13		30	22
Louisiana	8	267	749	47	2		78	177		52	26
Oklahoma	12	365	220	27	94	62	32	23	14	127	91
Texas	23	1,075	1,349	53	28	16	133	49	2	303	479
<b>Mountain</b>	<b>30</b>	<b>1,688</b>	<b>744</b>	<b>203</b>	<b>18</b>	<b>2,008</b>	<b>173</b>	<b>54</b>	<b>48</b>	<b>80</b>	<b>164</b>
Montana	1	706	97	14	7	1,429	34		29	8	12
Idaho	1									6	(2)
Wyoming	1									9	(2)
Colorado	9	475	366	127	1	222	79	48	9	29	54
New Mexico	1									1	(2)
Arizona	3	31	31		3		3	1		11	13
Utah	7	476	250	62	7	357	57	5	10	16	85
Nevada											
<b>Pacific</b>	<b>52</b>	<b>5,638</b>	<b>5,689</b>	<b>391</b>	<b>402</b>	<b>3,784</b>	<b>599</b>	<b>99</b>	<b>210</b>	<b>734</b>	<b>2,576</b>
Washington	18	1,367	960	66	216	234	69	38	88	186	1,154
Oregon	6	723	616	76			488	131	11	24	43
California	28	3,548	4,113	249	186	3,062	399	50	98	505	1,362

<sup>1</sup> Expressed in nearest mile.<sup>2</sup> No report.<sup>3</sup> Includes 56 companies operating busses only.

Source Electric Railway Journal

# No. 459.—ELECTRIC RAILWAYS: MILEAGE OF ELEVATED AND SUBWAY AND TUNNEL TRACK, BY STATES

NOTE.—In these statistics all track is included, each track of a double or multiple line is counted separately

Class of trackage and State	1907	1912	1917	1922
<b>Elevated, total</b> .....	<b>362 39</b>	<b>417 80</b>	<b>497 29</b>	<b>601 69</b>
New York.....	200 41	230 80	296 99	362 80
Illinois.....	125 77	141 90	146 89	163 88
Pennsylvania.....	7 67	9 87	16 71	32 40
Massachusetts.....	16 70	26 58	26 23	30 08
New Jersey.....	1 7 26	4 37	4 41	4 36
Missouri.....	3 18	2 88	2 96	2 88
Washington.....				2 69
Maryland.....	1 40	1 40	1 40	1 40
California.....			1 20	1 20
Kansas.....			. 60	
<b>Subways and tunnels, total</b> .....	<b>74 77</b>	<b>112 70</b>	<b>218 79</b>	<b>325 56</b>
New York <sup>1</sup> .....	60 38	70 54	162 37	269 14
Massachusetts.....	7 75	18 45	25 24	26 98
New Jersey <sup>2</sup> .....		11 68	12 62	12 62
Pennsylvania.....	5 62	8 42	8 95	7 95
California.....		. 30	5 43	5 35
Illinois.....	. 60	1 87	1 93	1 80
All other States <sup>4</sup> .....	. 42	1 44	2 25	1 72

<sup>1</sup>Includes 3.06 miles of Camden and Atlantic branch of West Jersey & Seashore Railroad Co., tabulated as an electrified division of a steam road for 1917 and 1912.

<sup>2</sup>Excludes 11.68 miles operated in New Jersey.

<sup>3</sup>Includes 11.68 miles owned by a New York company.

<sup>4</sup>Rhode Island, Minnesota and Missouri, 1922. Connecticut, Minnesota, Missouri, Rhode Island, West Virginia, and Wisconsin, 1917; Kansas, Missouri, Oregon, and Tennessee, 1912; Missouri, 1907.

Source: Bureau of the Census, Department of Commerce

# No. 460.—RECEIVERSHIPS OF ELECTRIC RAILWAYS

Year	Placed under receivership				Sold under foreclosure					
	Number of companies	Miles of track	Outstanding securities		Number of companies	Miles of track	Outstanding securities		Receivers' certificates	
			Stock	Bonds			Stock	Bonds		
			<i>Dollars</i>	<i>Dollars</i>			<i>Dollars</i>	<i>Dollars</i>		<i>Dollars</i>
1909.....	22	558	29,962,200	22,325,000	21	488	22,265,700	21,174,000	(1)	(1)
1910.....	11	697	12,629,400	75,490,735	22	724	19,106,613	26,374,075	(1)	(1)
1911.....	19	519	29,533,450	38,973,293	25	661	91,354,800	115,092,750	(1)	(1)
1912.....	26	374	20,410,700	11,133,800	18	267	14,197,300	10,685,250	(1)	(1)
1913.....	18	343	31,006,900	47,272,200	17	302	15,243,700	19,094,500	(1)	(1)
1914.....	10	362	35,562,550	19,050,460	11	181	26,239,700	44,094,241	(1)	(1)
1915.....	27	1,152	40,298,050	39,372,375	19	308	30,508,817	16,759,997	(1)	(1)
1916.....	15	359	14,476,600	10,849,200	19	430	13,895,400	22,702,300	(1)	(1)
1917.....	21	1,177	33,918,725	33,778,400	26	745	27,281,900	27,313,045	(1)	(1)
1918.....	29	2,018	92,130,388	163,257,102	23	524	37,740,325	20,149,384	(1)	(1)
1919.....	48	3,781	321,259,354	312,915,104	29	2,675	89,893,400	79,836,738	42,300	
1920.....	19	1,065	28,758,455	72,283,575	13	260	7,782,400	11,227,328	52,000	
1921.....	19	986	32,909,525	36,177,800	13	778	33,642,255	30,863,526	5,000	
1922.....	14	695	18,140,150	20,304,400	13	323	7,491,500	12,640,600	114,683	
1923.....	12	334	8,332,100	14,707,066	15	927	118,077,959	110,638,250	12,265,000	
1924.....	12	1,022	28,489,700	35,716,000	14	869	21,022,800	34,845,535	3,440,388	
1925.....	14	1,200	51,383,195	54,696,525	13	569	18,074,300	18,329,555	53,000	
1926.....	16	1,228	17,769,435	117,550,073	28	1,291	20,054,700	57,340,363	214,000	
1927.....	13	624	17,615,050	20,875,450	16	941	53,345,000	78,445,100	3,140,000	
1928.....	8	262	9,216,700	14,790,700	8	1,004	26,084,325	40,683,400	168,150	

<sup>1</sup> Data not available.

Source: Annual Statistical Number, Electric Railway Journal.

## 21.—WATERWAYS, WATER TRAFFIC, AND SHIPPING

Data in this section cover the following areas unless otherwise indicated: From Board of Engineers of the United States Army, and Bureau of Foreign and Domestic Commerce, United States customs area which includes Alaska, Hawaii, and Porto Rico, from United States Shipping Board, continental United States

*General note as to units of measurement*—"Cargo tonnage" represents weight of cargo in long tons (2,240 pounds) or short tons (2,000 pounds). All other tonnage figures refer to capacity of vessels. The terms gross and net tonnage refer to space measurement 100 cubic feet being called 1 ton. Gross tonnage is the capacity of the entire space within the frames and the ceiling of the hull, together with those closed-in spaces above deck available for cargo, storage, passengers or crew, with certain minor exemptions. Net or registered tonnage is what remains after deducting from the gross tonnage the spaces occupied by the propelling machinery, fuel, crew quarters, master's cabin, and navigation spaces. It represents substantially space available for cargo and passengers. The net tonnage capacity of a ship recorded as "entered with cargo" may bear little relation to actual weight of cargo. Dead weight tonnage is the weight in long tons required to depress a vessel from light water line (that is, with only the machinery and equipment on board) to load line. It is therefore the weight of the cargo, fuel, etc., which a vessel is designed to carry with safety. Displacement tonnage (naval vessels) has reference to weight of the vessel itself with its normal equipment, fuel, etc.

### No. 461.—CARGO TONNAGE OF WATER-BORNE COMMERCE OF THE UNITED STATES

[In thousands of short tons of 2,000 pounds]

	1924	1925	1926	1927
Foreign commerce, total.....	101, 562	108, 547	131, 293	120, 523
Imports, through seaports.....	36, 425	42, 792	44, 834	43, 388
Exports, through seaports.....	49, 003	49, 251	69, 859	56, 550
Imports, Great Lakes ports.....	4, 962	7, 317	6, 424	8, 098
Exports, Great Lakes ports.....	11, 187	9, 187	10, 176	12, 487
Domestic commerce, unadjusted total.....	384, 454	443, 022	470, 208	473, 118
Coastwise, between ports.....	88, 554	105, 000	108, 023	121, 036
Great Lakes, between ports.....	93, 188	111, 568	116, 486	113, 917
Local traffic of seaports and Great Lakes ports <sup>1</sup> .....	77, 270	64, 981	89, 168	78, 162
Traffic between seaports and river points.....	32, 315	47, 214	34, 510	38, 191
Traffic on rivers, canals, and connecting channels <sup>2</sup> .....	<sup>3</sup> 93, 127	114, 169	122, 021	121, 812
Foreign and domestic, unadjusted total.....	486, 015	551, 568	601, 501	593, 641
Deduction of duplications				
Traffic between seaports and river points.....	32, 315	47, 214	34, 510	38, 191
Other duplications (canals, etc) <sup>4</sup> .....	( <sup>5</sup> )	20, 954	26, 491	22, 950
Net total, foreign and domestic.....	453, 700	483, 400	540, 500	532, 500
Approximate net total, domestic <sup>6</sup> .....	352, 139	374, 854	408, 207	411, 977

<sup>1</sup> Includes the following, with figures for 1927: Harbor traffic of New York, Philadelphia, and San Francisco (48,105,000 tons), local traffic of other seaports (24,198,000), local traffic of lake ports (5,859,000)

<sup>2</sup> Excluding Sault Ste. Marie Canal traffic (83,354,000 tons in 1927) and additional Detroit River traffic (13,234,000 tons), both of which are already counted in Great Lakes traffic; also excluding duplications relating to rivers and canals themselves

<sup>3</sup> Not comparable with later years; see note 5

<sup>4</sup> Principally coastwise and lake traffic passing through canals and connecting channels, other than the Sault Ste. Marie Canal and the Detroit River

<sup>5</sup> Not available, the figures were for the most part deducted from river and canal traffic

<sup>6</sup> Estimated from data in this table on the assumption that all the duplications deducted from the grand total represent duplications in domestic traffic, there are, however, some minor cases of duplication connected with foreign traffic

Source. Board of Engineers for Rivers and Harbors.

No. 462.—COMMERCE OF PRINCIPAL UNITED STATES OCEAN PORTS, 192<sup>1</sup>

NOTE.—In thousands of short tons of 2,000 pounds. In addition to the commerce here shown, many of the ports have (1) commerce with ports on internal rivers and canals, (2) purely local port traffic, including in the case of New York, Philadelphia, and San Francisco, what is called intraport traffic between parts of a harbor for which separate statistics are maintained. These forms of traffic, although the aggregate tonnage is large, are of much less economic importance than foreign and coastwise traffic.

Port	Im-ports	Ex-ports	Coastwise		Port	Im-ports	Ex-ports	Coastwise	
			Re-ceipts	Ship-ments				Re-ceipts	Ship-ments
<b>Grand total</b> .....	<b>43,388</b>	<b>56,550</b>	<b>120,832</b>	<b>121,240</b>	<b>Gulf ports—Con</b>				
<b>Atlantic ports</b> .....	<b>32,793</b>	<b>23,185</b>	<b>76,625</b>	<b>54,775</b>	Mobile, Ala.....	353	714	628	66
Searspoint, Me.....	8	-----	463	-----	Pensacola, Fla.....	81	258	363	5
Portland, Me.....	740	171	2,187	223	Gulfport, Miss.....	26	384	132	-----
Portsmouth, N. H.....	36	-----	285	15	New Orleans, La.....	5,186	4,402	1,637	1,31
Boston Harbor.....	-----	-----	-----	-----	Baton Rouge, La.....	272	1,376	82	2,44
Mass.....	2,662	292	11,321	1,457	Galveston, Tex.....	481	2,121	1,018	1,79
Beverly, Mass.....	7	(1)	431	-----	Texas City, Tex.....	100	283	37	4,04
Salem, Mass.....	12	-----	450	-----	Houston, Tex.....	185	2,874	909	5,72
Lynn, Mass.....	2	-----	323	-----	Freeport, Tex.....	58	252	19	18
New Bedford and	-----	-----	-----	-----	Sabine, Tex.....	-----	26	(1)	59
Fair Haven, Mass.....	4	(1)	359	110	Port Arthur, Tex.....	10	950	116	6,71
Fall River, Mass.....	863	(1)	1,107	812	Beaumont, Tex.....	95	1,156	52	6,60
Newport, R. I.....	-----	-----	117	12	Corpus Cristi, Tex.....	6	98	11	88
Providence, R. I.....	367	(1)	4,181	468	<b>Pacific ports</b> .....	<b>3,510</b>	<b>17,351</b>	<b>87,598</b>	<b>34,01</b>
New London, Conn.....	21	(1)	606	140	San Diego, Calif.....	41	12	886	2
New Haven, Conn.....	23	-----	1,257	85	Los Angeles, Calif.....	570	7,314	5,011	13,38
Bridgeport, Conn.....	5	-----	1,067	75	San Luis Obispo,	-----	-----	-----	-----
Stamford, Conn.....	-----	-----	399	21	Calif.....	-----	504	30	85
Greenwich, Conn.....	-----	-----	218	15	San Francisco Bay,	-----	-----	-----	-----
New York Harbor,	-----	-----	-----	-----	Calif.....	1,135	3,505	14,087	3,16
N. Y.....	15,790	13,041	31,376	14,618	Monterey, Calif.....	-----	-----	118	32
Huntington Bay,	-----	-----	457	7,728	Humboldt, Calif.....	-----	-----	148	33
N. Y.....	-----	-----	2	2,272	Long Beach, Calif.....	81	303	394	69
Port Jefferson, N. Y.....	-----	-----	26	2,639	Coos Bay, Oreg.....	-----	112	46	34
Philadelphia, Pa. <sup>1</sup> .....	4,073	2,397	8,698	3,068	Portland, Oreg.....	142	1,786	2,268	78
Baltimore, Md.....	4,867	1,978	3,137	1,953	Other ports on Co-	-----	-----	-----	-----
Hampton Roads, Va.....	670	3,207	1,329	17,401	lumbia and lower	-----	-----	-----	-----
Wilmington, N. C.....	172	88	508	38	Willamette Rivers.	7	507	186	1,03
Charleston Harbor,	-----	-----	-----	-----	Grays Harbor, Wash.....	1	823	133	1,73
S. C. <sup>2</sup> .....	780	463	890	263	Willapa, Wash.....	-----	21	2	19
Savannah, Ga.....	408	482	905	444	Port Gamble, Wash.....	-----	30	172	11
Brunswick, Ga.....	144	129	320	352	Olympia, Wash.....	2	133	400	20
Fernandina, Fla.....	-----	253	-----	(1)	Tacoma, Wash.....	333	836	2,718	86
Jacksonville, Fla.....	593	220	1,268	711	Seattle, Wash.....	516	784	5,667	1,66
Miami, Fla.....	83	27	546	84	Everett, Wash.....	44	299	1,074	67
Key West, Fla.....	129	435	153	2	Anacortes, Wash.....	157	60	984	30
San Juan, P. R.....	199	18	538	294	Bellingham, Wash.....	65	90	989	52
<b>Gulf ports</b> .....	<b>7,064</b>	<b>16,014</b>	<b>8,611</b>	<b>32,454</b>	Port Angeles, Wash.....	254	32	263	19
Charlotte, Fla.....	-----	99	1	318	Port Ludlow, Wash.....	-----	13	209	9
Tampa, Fla.....	212	874	1,169	872	Honolulu, Hawaii.....	117	62	1,153	75
					Kahului, Hawaii.....	5	-----	160	20
					Hilo, Hawaii.....	18	-----	140	23

<sup>1</sup> Less than 500 tons    <sup>2</sup> Including Delaware and Schuylkill Rivers, Pa    <sup>3</sup> Including Ashley River  
Source Annual Report of the Chief of Engineers, United States Army

## No. 463.—GREAT LAKES, COMMERCE OF THE PRINCIPAL PORTS

NOTE.—In thousands of short tons of 2,000 pounds. Foreign imports and exports and coastwise receipts and shipments are included

Port	Receipts				Shipments			
	1924	1925	1926	1927	1924	1925	1926	1927
<b>Total</b> .....	<b>98,249</b>	<b>119,814</b>	<b>122,188</b>	<b>120,557</b>	<b>104,265</b>	<b>119,827</b>	<b>127,384</b>	<b>127,863</b>
Agate Bay, Minn.....	183	190	250	191	5,463	6,753	7,027	6,411
Alpena, Mich.....	202	227	229	240	961	1,168	1,372	1,311
Ashland, Wis.....	760	749	760	833	5,399	7,466	7,988	7,081
Ashabula, Ohio.....	7,342	8,792	10,376	7,954	2,793	1,868	2,068	3,041
Buffalo, N. Y.....	-----	-----	-----	-----	-----	-----	-----	-----
By lake.....	14,971	14,985	13,313	14,793	3,895	2,970	3,663	3,061
By canal.....	167	503	393	384	775	1,036	998	921

## No. 463.—GREAT LAKES, COMMERCE OF THE PRINCIPAL PORTS—Continued

Port	Receipts				Shipments			
	1924	1925	1926	1927	1924	1925	1926	1927
Calumet, Mich.	43	93	67	112	6,856	8,413	9,041	10,345
Charlotte, N. Y. (Rochester)	183	176	105	154	1,012	555	973	862
Chicago, Ill.	8,578	12,924	10,906	11,531	2,542	1,802	1,892	1,875
Cleveland, Ohio	8,633	11,426	11,993	10,730	1,851	666	761	1,204
Conneaut, Ohio	8,305	9,777	10,656	8,944	1,880	1,612	2,144	772
Detroit, Mich.	2,846	4,019	4,042	2,424	127	197	279	422
Duluth-Superior	10,399	10,935	11,780	13,816	35,018	40,130	41,915	38,896
Erie, Pa.	1,189	951	1,685	1,791	1,170	675	1,198	921
Escanaba, Mich.	270	327	578	201	4,777	6,474	7,093	6,584
Fairport, Ohio	2,794	3,327	3,495	3,276	602	1,001	697	1,567
Frankfort, Mich.	855	933	898	897	652	716	732	670
Gary, Ind.	3,465	6,790	5,967	5,393	—	—	—	4
Grand Haven, Mich.	343	408	417	518	447	546	516	720
Green Bay, Wis.	975	1,166	1,271	1,417	224	257	266	286
Huron, Ohio	831	1,165	1,358	1,324	800	747	612	247
Indiana Harbor, Ind.	3,344	3,956	4,646	4,596	851	1,332	798	920
Kewanee, Wis.	157	192	175	124	201	207	212	209
Keweehaw Waterway, Mich.	609	614	809	957	52	48	68	65
Lorain, Ohio	3,862	5,259	4,731	4,511	2,282	1,581	2,104	2,756
Ludington, Mich.	1,001	1,012	985	965	1,472	1,522	1,449	1,447
Manistique, Mich.	100	96	83	85	224	212	183	184
Manitowoc, Wis.	1,291	1,440	1,422	1,422	737	765	734	846
Marquette Harbor, Mich.	241	290	241	207	1,178	1,402	1,018	926
Marquette Bay, Mich.	—	—	—	—	1,645	2,517	2,820	2,720
Menominee, Mich. and Wis.	469	457	527	514	248	291	285	240
Milwaukee, Wis.	5,100	5,611	6,111	6,512	1,377	1,297	1,426	1,721
Muskegon, Mich.	328	356	310	402	20	33	30	30
Ogdensburg, N. Y.	519	592	643	1,492	29	68	733	45
Rockport, Mich.	18	13	26	15	1,190	1,415	1,847	1,780
Rouge River, Mich.	2,067	2,946	3,163	3,069	25	64	36	72
Sandusky, Ohio	580	243	188	124	4,233	6,120	6,934	7,985
Sault Ste. Marie, Mich. <sup>2</sup>	687	761	764	808	1	—	—	—
Sheboygan, Wis.	413	384	458	464	11	12	11	12
Sturgeon Bay, Wis.	26	20	19	25	215	330	381	370
Toledo, Ohio	1,874	1,871	2,278	1,767	9,446	14,049	14,202	16,799
Tonawanda, N. Y. <sup>2</sup>	352	484	453	486	21	—	—	16
Wyandotte, Mich.	1,029	1,159	1,174	874	—	—	—	—
All other	1,878	2,856	2,485	4,187	1,482	1,888	1,164	1,496

<sup>1</sup> Includes Chicago Harbor, Chicago River and Calumet Harbor

<sup>2</sup> Port of by Lake and Niagara River

Source Annual Reports of the Chief of Engineers, United States Army

## No. 464.—COMMERCE ON THE PRINCIPAL RIVERS, CANALS, AND CONNECTING CHANNELS OF THE UNITED STATES, 1927

NOTE.—There is much duplication as between different rivers, canals, and channels, and between those different sections of a single river which are separately reported

[In thousands of short tons of 2,000 pounds]

River, canal, or channel	Total	Rafted and floated timber <sup>1</sup>	River, canal, or channel	Total	Rafted and floated timber <sup>1</sup>
ATLANTIC COAST			ATLANTIC COAST—continued		
Penobscot, Me.	604	—	Delaware River, Philadelphia, Pa., to Trenton	2,574	—
Kennebec River, Me.	167	—	Potomac River (below Washington, D. C.)	2,403	—
Herring River, Mass.	585	—	Rappahannock River, Va.	341	—
Pawtucket River, R. I.	303	—	York River, Va.	312	—
Thames River, Conn.	417	—	James River, Va.	983	35
Connecticut River (below Hartford)	598	—	Nansemond River, Va.	316	—
Housatonic River, Conn.	182	—	Pamlico and Tar Rivers, N. C.	235	89
Hudson River, N. Y.	—	—	Neuse River, N. C.	238	48
Middle section	2,839	—	Cape Fear River, N. C. (above Wilmington)	153	37
Upper section	2,148	—	Wando River, S. C.	236	203
Cooper River, N. J.	423	—	Altamaha River, Ga.	163	22
Maurice River, N. J.	194	—			

<sup>1</sup> Included in the total

<sup>2</sup> Excludes car ferry, general ferry, and cargoes in transit.



## No. 464.—COMMERCE ON THE PRINCIPAL RIVERS, CANALS, AND CONNECTING CHANNELS OF THE UNITED STATES, 1927—Continued

River, canal, or channel	Total	Rafted and floated timber <sup>1</sup>	River, canal, or channel	Total	Rafted and floated timber <sup>1</sup>
GULF COAST			INTERIOR RIVERS AND OTHER WATERWAYS—continued		
Appalachicola River, cut-off, Lee Slough, and Lower Chipola River, Fla.	223	15	Cowlitz River, Oreg.	1,403	1,312
Alabama River, Ala.	166	19	Colombia and Willamette Rivers, Wash. and Oreg.	7,768	5,437
Black Warrior, Warrior, and Tombigbee Rivers, Ala.	1,468	204	Hoguan River, Wash.	1,036	706
Pascagoula River, Miss.	112	---	Stikiamish River, Wash.	1,975	1,443
Mobile River, Ala., tributaries.	616	246	Snohomish River, Wash.	322	260
Atchafalaya River, Morgan City to Gulf of Mexico	730	80	Skagit River, Wash.	773	---
Lake Ponchartrain, La.	899	---	Chehalis River, Wash.	748	660
Calcasieu River and Pass, La.	295	---	Wishkah River, Wash.	---	---
Clear Creek, Tex.	193	---	Pend d'Oreille River, Wash. and Idaho.	188	---
Goose Creek, Tex.	324	---	Priest River, Idaho.	160	---
MISSISSIPPI RIVER AND TRIBUTARIES			Coeur d'Alene Lake and St Joe River, Idaho.	508	496
Ouachita and Black Rivers, Ark. and La.	2,327	22	FEDERAL CANALS AND CONNECTING CHANNELS		
Yazoo River, Miss.	2,157	1	Inland waterway from Delaware River to Chesapeake Bay, Del. and Md.	608	2
Big Sunflower River, Miss.	75	9	Waterway from Norfolk, Va., to the sounds of North Carolina.	155	25
Arkansas River, Ark. and Okla.	302	96	Inland waterway from Norfolk, Va., to Beaufort Inlet, N. C.	650	29
White River, Ark.	150	44	Waterway between Beaufort, S. C., and St. Johns River, Fla.	482	25
Black River, Ark. and Mo.	60	9	Intracoastal waterway, Jacksonville to Miami, Fla.	2,289	---
St. Francis and L'Angelle Rivers and Blackfish Bayou, Ark.	130	117	Narrows in Santa Rosa Sound, Fla.	135	45
Mississippi River	---	---	Channel between Mobile Bay and Mississippi Sound, Ala.	315	---
Between Missouri River and Minneapolis, Minn.	2,715	---	Intracoastal waterway, Calcasieu River to Sabine River, La. and Tex.	255	---
Between Ohio and Missouri Rivers.	1,110	2	Harvey Canal, La.	151	10
Between Cairo and Memphis.	2,144	16	Intracoastal waterway, Mississippi River to Bayou Teche, La. (Black Bayou).	154	10
Between Memphis and Vicksburg.	4,358	82	Sabine-Neches Canal, Tex.: Local traffic	16	---
Between Vicksburg and New Orleans.	8,817	81	Traffic in transit.	8,346	---
Missouri River	---	---	Keweenaw Waterway, Mich.	1,406	---
Kansas City to mouth.	551	2	Sturgeon Bay and Lake Michigan Ship Canal, Wis. (through traffic only)	477	---
Kansas City to Sioux City.	118	---	St. Marys Falls Canal, Mich.	83,354	---
Cumberland River, Tenn., and Ky. (below Nashville).	279	9	Detroit River, Mich.	13,834	---
Cumberland River, Tenn. and Ky. (above Nashville).	253	31	Lake Washington Ship Canal, Wash.	2,312	1,528
Tennessee River	2,292	65	Canal and locks at Willamette Falls, Oreg.	250	35
Mtongahela River, Pa. and W. Va.	25,873	---	STATE AND PRIVATE CANALS		
Allegheny River, Pa.	3,861	---	Cape Cod Canal, Mass.	895	---
Youghiogheny River, Pa.	272	---	New York State Barge Canal System.	2,582	---
Little Kanawha River, W. Va.	264	---	Lehigh and Delaware Division Canals, Pa.	326	---
Kanawha River, W. Va.	1,421	1	Delaware and Raritan Canal.	120	---
Ohio River, Ohio.	20,129	---	New Basin Canal, La.	508	---
Muskingum River, Ohio.	804	---	Navigation Canal, Inner Harbor, La.	710	---
Kentucky River, Ky.	166	48	Miami Canal, Fla.	233	---
Green and Barren Rivers, Ky.	522	18	Chicago Sanitary Drainage Canal, Ill.	915	---
INTERIOR RIVERS AND OTHER WATERWAYS					
Fox River, Wis.	342	---			
Grand River, Mich.	252	---			
Niagara River, N. Y.	178	---			
San Joaquin River, Calif.	1,153	---			
Sacramento River, Calif.	1,210	---			
Umpqua River, Oreg.	451	379			
Coguille River, Oreg.	196	141			
Yacuma River, Oreg.	293	194			
Colombia River from Vancouver to The Dalles.	705	300			
Clatskanie River, Oreg.	326	324			
Willamette River (above Portland and Yamhill River, Oreg.).	1,717	886			

<sup>1</sup> Included in total<sup>2</sup> Excludes car ferry, general ferry, and cargoes in transit<sup>3</sup> Internal traffic only; total traffic, including foreign and coastwise, was 14,479,000 tons<sup>4</sup> Excludes traffic through the St. Marys Falls Canal, which also passes through the Detroit River; the total traffic through the Detroit River was 97,188,000 tons.

Source: Annual Report of the Chief of Engineers, United States Army.

**No. 465.—SAULT STE. MARIE CANALS: GENERAL TRAFFIC STATISTICS**

NOTE.—Includes both American and Canadian canals and traffic to and from Canadian as well as American ports. Average distances, ton-miles, freight charges, etc., are based on total haul from port of origin to port of destination in process of performance by vessels passing through the canals.

Season	Freight carried (1,000 short tons of 2,000 pounds)					Total ton-miles (mil-lions)	Freight charges		Valuation of freight (mil-lions of dollars)
	Total	East-bound	West-bound	By American vessels	By Canadian vessels		Amount (1,000 dollars)	Average per ton per mile (mills)	
1890.....	9,041	6,429	2,612	8,679	362	7,207	9,472	1.30	102
1895.....	15,063	12,030	3,033	14,497	566	12,503	14,239	1.14	160
1900.....	25,643	20,532	5,111	24,596	747	21,179	24,953	1.18	267
1905.....	44,271	36,779	7,492	42,061	2,210	36,893	31,421	.85	417
1907.....	58,217	45,544	12,673	55,469	2,748	48,221	38,457	.80	570
1908.....	41,391	30,381	11,010	38,392	2,999	34,854	23,903	.69	470
1909.....	57,895	46,379	11,516	54,265	3,630	46,813	36,292	.78	626
1910.....	62,363	47,134	15,229	58,569	3,794	52,406	38,711	.74	654
1911.....	53,477	36,429	17,048	49,844	3,633	44,174	29,492	.67	595
1912.....	72,473	55,378	17,095	68,469	4,004	60,243	40,578	.67	791
1913.....	79,718	59,206	20,512	74,789	4,929	65,331	44,381	.68	866
1914.....	55,370	39,471	15,899	50,469	4,901	46,112	27,597	.60	635
1915.....	71,290	56,369	14,921	66,877	4,413	59,317	41,984	.71	882
1916.....	91,888	74,148	17,740	86,174	5,714	75,717	60,845	.80	974
1917.....	89,814	70,047	19,767	84,685	5,129	73,635	59,277	1.21	1,197
1918.....	85,680	66,285	19,395	80,958	4,722	70,108	53,508	1.19	987
1919.....	68,236	52,832	15,404	63,408	4,828	55,612	58,479	1.05	915
1920.....	79,282	63,464	15,818	74,866	4,416	64,702	85,742	1.33	1,120
1921.....	48,259	32,113	16,146	43,016	5,243	38,043	43,344	1.14	746
1922.....	66,067	55,020	11,047	60,812	5,255	53,564	64,154	1.20	957
1923.....	91,380	71,236	20,144	83,795	7,585	73,218	80,843	1.10	1,026
1924.....	72,037	56,840	15,197	65,447	6,590	58,579	59,769	1.02	1,080
1925.....	81,875	67,305	14,570	73,764	6,111	65,577	71,063	1.08	1,118
1926.....	85,679	69,530	16,149	78,006	7,673	69,360	78,517	1.13	1,064
1927.....	83,354	64,933	18,961	76,091	7,264	67,387	69,331	1.03	1,132
1928.....	86,993	70,166	16,827	78,072	8,921	70,259	81,281	1.16	1,183

	1900	1910	1915	1920	1925	1927	1928
Date of opening canal.....	Apr 19	Apr 12	Apr 13	Apr 19	Apr. 8	Apr. 12	May 1
Date of closing canal.....	Dec 16	Dec. 15	Dec. 20	Dec 26	Dec 17	Dec 18	Dec. 16
Number of vessels passing.....	19,452	20,899	21,233	18,847	20,650	18,759	19,286
Registered tonnage of vessels passing.....1,000 net tons..	22,316	49,856	56,399	58,194	69,240	64,325	66,835
Eastbound.....do.....	11,143	24,725	28,316	29,123	34,053	32,260	33,566
Westbound.....do.....	11,173	25,132	28,083	29,071	34,587	32,065	33,479
Passengers carried.....number..	58,555	66,933	50,336	68,451	56,956	55,115	56,053
Freight, eastbound							
.....1,000 short tons..	20,532	47,134	56,369	63,464	67,305	64,393	70,166
Flour.....1,000 bbls.....	6,755	7,576	8,437	7,478	9,289	9,383	9,283
Wheat.....1,000 bus.....	40,489	86,260	255,482	143,456	292,818	330,898	406,760
Other grain.....do.....	16,064	39,243	64,755	51,630	149,927	119,520	131,639
Lumber.....1,000 ft b m.....	909,651	603,101	456,451	192,854	186,486	182,608	187,205
Iron ore.....1,000 short tons..	16,444	41,600	45,212	56,643	53,821	49,963	53,225
Pig iron.....do.....	20	49	18	1	24	79	117
Stone.....do.....	49	10	-----	67	24	79	67
Copper.....do.....	131	143	156	52	63	67	86
General merchandise.....do.....	86	173	332	56	107	95	136
Freight, westbound							
.....1,000 short tons..	5,111	15,229	14,921	15,818	14,570	18,961	16,827
Coal.....do.....	4,487	13,614	13,357	14,156	12,874	17,107	14,870
Salt.....do.....	49	78	105	99	58	59	61
Oil.....do.....	-----	-----	-----	353	223	257	321
Stone.....do.....	-----	-----	-----	496	643	570	561
Iron ore.....do.....	-----	8	2	138	63	135	96
Manufactured iron and steel.....1,000 short tons..	116	396	194	76	119	116	186
General merchandise.....do.....	459	1,238	1,263	500	600	708	732

Source: Annual Report of the Chief of Engineers, United States Army.

**No. 466.—NEW YORK STATE CANALS: TONNAGE OF FREIGHT MOVED**

NOTE.—In short tons of 2,000 pounds. Tonnage handled over State terminals but not moved through any portion of the canal channel is not included

Yearly average	All canals	Erie division	Yearly average or year	All canals	Erie division			
					Total freight	Grain	Sand, gravel, stone	Petroleum
1837-1840.....	1,339,016	771,741	1906-1910.....	3,238,129	2,206,595			
1841-1845.....	1,613,317	854,522	1911-1915.....	2,448,837	1,626,451			
1846-1850.....	2,731,410	1,556,696	1916-1920.....	1,348,865	798,706			
1851-1855.....	3,976,501	2,141,476	1921-1925.....	1,905,291	1,548,408	630,453	333,250	191,406
1856-1860.....	3,911,407	1,889,759	1920.....	1,421,434	891,221	112,821	327,633	64,174
1861-1865.....	5,049,341	2,743,929	1921.....	1,270,407	993,639	356,985	247,653	103,400
1866-1870.....	5,987,724	3,018,359	1922.....	1,873,434	1,486,109	550,831	357,656	164,176
1871-1875.....	5,974,097	3,326,073	1923.....	2,006,284	1,626,062	629,793	375,964	190,104
1876-1880.....	5,219,888	3,542,020	1924.....	2,032,317	1,691,766	698,246	365,266	237,018
1881-1885.....	5,210,389	3,495,590	1925.....	2,344,013	1,945,466	916,441	339,713	262,331
1886-1890.....	5,281,441	3,589,631	1926.....	2,369,367	1,935,278	795,598	287,139	213,212
1891-1895.....	4,112,061	2,962,528	1927.....	2,581,892	2,047,774	791,037	325,076	327,616
1896-1900.....	3,544,951	2,446,065	1928.....	3,089,998	2,535,684	1,118,788	307,642	313,593
1901-1905.....	3,335,210	2,144,492						

Source. Commissioner of Canals and Waterways, Department of Public Works, State of New York

**No. 467.—PRINCIPAL COMMODITIES CARRIED ON THE OHIO RIVER**

NOTE.—In short tons of 2,000 pounds. Ferry traffic is excluded Totals include small items not shown

Commodity	Total			1927			
	1923	1926	1927	Inbound	Out-bound	Up-bound	Down-bound
Total.....	8,280,520	19,754,978	20,128,518	7,438,857	3,266,044	1,854,452	7,569,165
Animals and animal products.....	13,393	15,098	32,746	3,875	697	10,289	17,975
Livestock.....	11,280	6,407	24,722	3,292	386	3,514	17,630
Poultry and eggs.....	922	6,661	6,567	286		6,166	115
Hides and leather.....	891	168	149			18	131
Dairy products.....	102	786	727	297	221	176	33
Vegetable food products.....	35,069	57,479	40,520	547	8,937	12,634	18,402
Groceries.....	7,140	13,313	7,421		2,584	1,048	7,534
Sugar and molasses.....	1,694	919	739		623	71	45
Grains.....	8,312	31,086	22,078	110	1,269	8,165	12,534
Flour.....	1,966	2,834	2,233		1,946	49	238
Hay, feed, straw.....	5,743	4,781	2,902	85	598	739	1,490
Vegetables.....	8,436	491	1,908	2	1,440	450	16
Other vegetable products.....	1,332						
Textiles.....	2,041	3,316	1,502	1	4	1,048	451
Dry goods.....	1,412	2,905	1,485	1	4	1,043	437
Wood and paper.....	141,673	397,634	474,045	452,165	2,596	18,343	2,941
Furniture.....	2,213	2,805	2,284		54	1,729	501
Logs and lumber.....	15,373	142,048	77,171	61,095	2,542	11,683	1,851
Railroad ties of wood.....	123,955	252,731	394,590	391,070		2,931	839
Minerals, nonmetallic.....	7,483,127	18,516,099	18,357,678	8,348,945	3,036,301	1,739,978	7,232,452
Cement.....	3,960	29,980	48,540	4,350	2,361	35,923	5,906
Sand and gravel.....	1,201,926	8,997,515	9,187,007	35,000	2,669,651	1,193,336	5,289,020
Stone.....	170,478	436,073	386,862	27,924	11,281	341,967	5,690
Coal.....	6,068,918	8,355,478	8,141,217	5,774,739	310,023	154,147	1,902,308
Coke.....	32,790	353,229	370,497	374,170		2,325	2
Fluorspar.....	1,622	2,360	6,643			6,643	
Crude oil.....	28,037	256,522	104,202	50,081	30,182	3,153	20,866
Gasoline and kerosene.....		72,236	94,680	79,149	7,809	56	7,666
Other refined oils.....	22,151	9,197	6,755	757	4,543	670	785
Sulphur.....		10,002					
Ores, metals, etc.....	389,793	538,085	981,999	566,223	190,454	22,123	203,290
Iron and steel, unmd.....	150,128	210,960	462,070	232,798	145,085	13,391	70,796
Pipe.....	3,323						
Structural steel.....	103,827						
Other iron and steel.....	221,914						
Machinery and vehicles.....	3,531	44,953	62,052	2,794	16,933	1,358	40,967
Machinery.....	3,162	6,996	3,380	1,059	478	917	926
Boats and barges.....		37,377	57,822	1,735	16,455	270	39,862
Automobiles and trucks.....	181	580	850			171	679
Chemicals.....	2,493	23,326	33,178	26,397	109	4,567	2,105
Acids.....		20,758	29,459	26,305		3,101	53
Fertilizers.....	2,343	3,068	2,744		109	1,466	1,169
Unclassified.....	208,089	158,488	144,800	37,811	10,103	46,114	50,672

<sup>1</sup> Scrap iron

<sup>2</sup> Manufactured iron and steel.

Source. Annual Report of the Chief of Engineers, United States Army.

**No. 468.—OHIO RIVER TRAFFIC: TONNAGE, TON-MILEAGE, AND FREIGHT**

NOTE.—Figures exclude ferry traffic. In 1927 the tons of freight carried on ferries were reported as 2,064,878, but the hauls, of course, are very short. The passenger traffic other than on ferries for 1927 was: Passengers, 2,004,513, passenger miles, 26,055,734. Leaders indicate data not available.

Year	Freight carried	Ton-miles	Value of freight	Year	Freight carried	Ton-miles	Value of freight
	1,000 short tons	Thousands	1,000 dollars		1,000 short tons	Thousands	1,000 dollars
1914-----	7,589		38,069	1925—Total-----	15,787	825,497	151,622
1915-----	7,340	1,095,423	50,906	Up-----	3,353	77,673	49,208
1916-----	6,015	598,383	38,774	Down-----	12,384	747,824	102,414
1917-----	4,599	378,491	70,510	1926—Total-----	4,755		150,096
1918-----	6,171	315,504	77,085	Up-----	4,782		40,931
1919-----	6,004	604,751	82,912	Down-----	14,973		109,155
1920-----	9,382	1,133,915	223,443	1927—Total-----	20,129	1,214,491	158,424
1921-----	7,308	844,895	93,275	Up-----	1,854		49,448
1922-----	6,292	807,793	144,796	Down-----	7,569		74,649
1923-----	8,281		110,022	Inbound-----	7,439		20,804
1924-----	10,867		128,356	Outbound-----	3,266		

**No. 469.—LOWER MISSISSIPPI RIVER TRAFFIC: FREIGHT BY SECTIONS, AND PETROLEUM AT BATON ROUGE**

NOTE.—In short tons of 2,000 pounds. Each section of the river is treated separately and some of the traffic of each is duplicated in others. The section "Between Ohio and Missouri Rivers" for 1921 and previous years was reported as "St. Louis to Cairo." Ferry traffic is not included.

Year	Between Ohio and Missouri Rivers		Cairo to Memphis		Memphis to Vicksburg		Vicksburg to New Orleans		Petroleum, Baton Rouge	
	Up-bound	Down-bound	Up-bound	Down-bound	Up-bound	Down-bound	Up-bound	Down-bound	Up-bound to	Down-bound from
1921-----	194,724	909,426	185,289	717,534	983,631	646,116	3,442,908	3,879,427	1,94,573 <sup>1</sup>	1,136,398
1922-----	202,446	345,668	369,194	534,192	801,841	639,207	2,177,686	3,366,820	1,442,598 <sup>2</sup>	2,405,032
1923-----	263,729	459,339	395,828	652,494	724,953	727,884	1,583,880	3,909,417	746,381 <sup>2</sup>	2,614,074
1924-----	300,009	438,719	528,431	624,590	917,475	748,965	1,589,202	6,044,075	766,463 <sup>3</sup>	872,316
1925-----	420,246	583,323	651,002	1,037,652	1,391,234	1,821,025	1,363,254	7,738,396	467,616 <sup>5</sup>	359,639
1926-----	420,379	585,600	732,729	927,459	1,165,142	3,627,638	1,462,325	9,612,163	529,590 <sup>6</sup>	1,165,517
1927-----	448,459	659,743	839,718	1,304,599	1,371,134	2,986,963	1,727,352	7,089,393	354,117 <sup>4</sup>	4,447,025

	Between Ohio and Missouri Rivers		Cairo to Memphis		Memphis to Vicksburg		Vicksburg to New Orleans	
	1926	1927	1926	1927	1926	1927	1926	1927
Upbound-----	420,379	448,459	732,729	839,721	1,165,142	1,371,134	1,462,325	1,727,352
Coffee, cocoa, and spices-----	9,469	7,636	14,424	12,372	16,451	15,174	17,871	16,557
Sugar-----	77,622	116,761	201,028	282,513	279,512	367,115	306,435	381,443
Sisal and hemp-----	15,445	5,521	33,342	15,627	33,342	15,627	33,342	15,627
Burlap and bagging-----		1,711	7,524		11,652		11,652	
Logs, barged-----	34,292	30,895	151,829	150,230	55,950	109,511	113,860	72,173
Petroleum and products-----	697	185	5,873	8,069	102,472	203,906	633,624	753,496
Receipts at Baton Rouge-----							529,590	354,117
Shipments from Baton Rouge-----								186,313
Gravel and sand-----	540	27	32,000	30,023	300,356	215,916	1,255	10,660
Cement-----		24		3	50,018	1,576	985	775
Bauxite ore-----	150,553	132,317	202,036	244,944	202,036	244,944	202,036	244,944
Sulphur-----		187	11,539	14,857	11,539	14,857	11,539	14,857
All other-----	125,761	153,195	73,134	81,083	101,814	182,508	130,236	210,820
Downbound-----	585,599	689,743	927,459	1,304,599	3,627,638	2,986,963	612,163	7,089,393
Wheat-----	123,529	154,719	116,660	158,555	116,660	158,587	116,660	158,555
Corn-----	41,056	7,870	49,938	8,093	49,818	8,183	50,318	8,263
Tobacco-----		243	348	1,157	13,452	26,024	13,475	26,000
Cotton, raw-----		1	2,051	1,379	39,009	49,169	50,325	59,146
Logs, barged-----		6,623	70,388	196,502	346,994	143,475	140,788	128,724
Logs, rafted or floated-----			12,897	16,100	25,926	81,942	63,704	81,188
Coal and coke-----	8,392	6,358	81,565	144,811	76,492	81,492	10,456	5,728
Petroleum and products-----	6,652	4,065	2,146	240	2,301,711	1,803,310	768,963	2,444,073
Receipts at Baton Rouge-----							2,298,482	1,796,359
Shipments from Baton Rouge-----								6,116,517
Stone-----	153,497	204,603	67,910	48,294	70,282	26,567	342	600
Gravel and sand-----		3,027	150,000	233,745	270,000	204,108	157,507	1,235
Bauxite ore concentrates-----	13,820	11,510	19,617	17,582	19,617	17,582	19,617	17,582
Iron and steel manufactures-----	22,302	23,478	169,027	286,774	78,558	123,329	72,016	118,671
All other-----	216,351	237,247	184,912	191,367	219,119	263,195	147,952	239,628

<sup>1</sup> Coastwise only.

Source of Tables 468 and 469: Annual Reports of the Chief of Engineers, United States Army.

## No. 470.—UNITED STATES MERCHANT MARINE: DOCUMENTED TONNAGE

NOTE.—For definition of "gross ton" see general note, p 429 All data after 1840 are as of June 30

Year	Number			Thousands of gross tons			Tonnage (thousands of gross tons) employed in—			
	Total	Sailing <sup>1</sup>	Steam and motor	Total	Sailing <sup>1</sup>	Steam and motor	Foreign trade	Coast-wise and internal trade	Whale fisheries	Cod and mackerel fisheries
1789 <sup>2</sup>				202	202		124	69		9
1800 <sup>2</sup>				972	972		667	272	3	29
1810 <sup>2</sup>				1,425	1,425		981	405	4	35
1820 <sup>2</sup>				1,280	1,280		584	588	36	72
1830 <sup>2,3</sup>				1,192	1,127	64	538	517	40	98
1840 <sup>4</sup>				2,181	1,978	202	763	1,177	137	104
1850				3,535	3,010	526	1,440	1,798	146	152
1860				5,354	4,486	868	2,379	2,645	167	163
1870	28,998	25,474	3,524	4,247	3,171	1,075	1,449	2,638	68	91
1880	24,712	19,995	4,717	4,068	2,856	1,212	1,314	2,638	38	78
1890	23,467	17,502	5,965	4,424	2,565	1,859	928	3,409	19	68
1900	28,333	16,280	7,053	5,165	2,507	2,658	817	4,287	10	52
1910	25,710	13,288	12,422	7,508	2,608	4,900	783	6,669	9	47
1915	29,701	10,753	15,948	8,389	2,446	5,944	1,863	6,486	9	32
1916	26,444	10,383	16,061	8,470	2,400	6,070	2,185	6,245	7	33
1917	26,397	10,155	16,242	8,871	2,438	6,433	2,441	6,393	6	32
1918	26,711	10,053	16,658	9,925	2,453	7,471	3,599	6,282	4	38
1919	27,513	9,802	17,651	12,907	2,492	10,416	6,665	6,201	4	36
1920	28,183	9,369	18,814	16,324	2,501	13,823	9,925	6,358	4	38
1921	28,012	8,941	19,071	18,282	2,537	15,745	11,077	7,163	4	37
1922	27,358	8,398	18,960	18,463	2,481	15,982	10,720	7,703	4	36
1923	27,017	8,071	18,946	18,285	2,463	15,821	9,069	9,177	4	35
1924	26,576	7,525	18,750	17,741	2,425	15,315	8,794	8,911	3	32
1925	26,367	7,730	18,637	17,406	2,430	14,976	8,151	9,216	4	35
1926	26,343	7,654	18,689	17,311	2,463	14,848	7,719	9,552	3	38
1927	25,778	7,394	18,384	16,888	2,381	14,507	7,809	9,533	8	38
1928	25,385	7,115	18,270	16,683	2,336	14,347	6,934	9,706	7	36

Classes	Number					Thousands of gross tons				
	1900	1910	1920	1925	1928	1900	1910	1920	1925	1928
<b>By utilization:</b>										
<b>Registered—</b>										
Foreign trade	1,288	1,490	5,932	4,695	4,312	817	783	9,925	8,151	6,934
Whale fisheries	42	36	26	19	13	10	9	4	4	7
<b>Enrolled—</b>										
Coasting and internal trade	13,241	13,654	12,181	12,586	12,436	4,196	6,555	6,233	9,097	9,592
Cod and mackerel fisheries	545	395	196	185	219	44	39	32	29	30
<b>Licensed—</b>										
Coasting and internal trade	7,327	9,328	9,463	8,599	8,109	91	114	124	119	115
Cod and mackerel fisheries	890	837	385	283	296	8	8	6	6	7
<b>By location:</b>										
Atlantic and Gulf <sup>5</sup>	16,532	17,084	16,850	15,723	14,541	2,728	3,523	9,739	11,108	10,372
Pacific <sup>6</sup>	2,217	3,574	6,512	6,035	6,307	613	937	3,326	3,282	3,355
Northern lakes	3,167	3,273	3,091	2,677	2,537	1,566	2,895	3,139	2,853	2,773
Western rivers	1,417	1,809	1,730	1,932	2,000	258	154	120	162	182
<b>By power:</b>										
Sail	13,271	8,947	4,030	2,533	1,939	1,885	1,655	1,272	1,125	915
Steam <sup>7</sup>	7,053	12,452	8,103	7,454	6,619	2,668	4,900	13,466	14,495	13,614
Motor <sup>7</sup>	647	674	10,711	11,183	11,651	270	74	357	481	733
Canal boats	—	—	448	342	—	—	—	52	40	33
Barges	2,362	3,667	4,891	4,855	4,906	549	878	1,177	1,204	1,388
<b>By material:</b>										
Wood	22,108	23,527	23,781	21,384	20,318	3,572	3,391	3,876	2,907	2,619
Metal	1,225	2,213	4,402	4,983	5,067	1,593	4,117	12,448	14,499	14,064

<sup>1</sup> Including canal boats and barges. <sup>2</sup> Dec 31.<sup>3</sup> The decrease of tonnage arises principally from the registered tonnage having been corrected in 1818, 1829, and 1830 by striking off all vessels the registers of which were granted prior to 1815, which were supposed by the collectors to have been lost at sea, captured, etc.<sup>4</sup> Sept. 30<sup>5</sup> Including Porto Rico in 1910, 1920, 1925 and 1928, and also Virgin Islands in 1920, 1925 and 1928.<sup>6</sup> Including Hawaii and Alaska. <sup>7</sup> Motor vessels included in steam in 1900 and 1910.

Source: Reports of the Commissioner of Navigation.

**No. 471.—UNITED STATES MERCHANT MARINE: LARGER SEAGOING VESSELS,  
BY CLASSES AND SIZE, AS OF JULY 1**

NOTE.—For definition of "gross ton" see general note, p. 423. The number and tonnage reached their maximum in 1921

	Number					Thousands of gross tons				
	1919	1921	1924	1927	1928	1919	1921	1924	1927	1928
<b>Vessels of 500 gross tons or over, total</b> .....	2, 658	3, 723	3, 322	2, 836	2, 695	7, 755	13, 234	12, 535	11, 376	11, 164
Private ownership.....	1, 676	1, 925	1, 953	1, 957	1, 934	3, 928	5, 241	6, 245	6, 836	7, 054
Shipping Board <sup>1</sup> .....	982	1, 798	1, 339	879	761	3, 827	7, 994	6, 290	4, 540	4, 110
Steam and gas.....	2, 888	2, 574	2, 218	2, 139	-----	12, 216	11, 575	10, 572	10, 434	-----
Sailing and unrigged.....	835	748	618	556	-----	1, 019	960	804	730	-----
Foreign trade.....	2, 559	1, 855	1, 305	1, 201	-----	10, 621	8, 415	6, 291	6, 162	-----
Coasting trade.....	1, 164	1, 437	1, 531	1, 494	-----	2, 614	4, 120	6, 085	5, 002	-----
Steel.....	1, 605	2, 549	2, 469	2, 195	2, 122	6, 308	11, 441	11, 387	10, 597	10, 461
Wood.....	1, 053	1, 174	853	641	573	1, 447	1, 793	1, 148	779	703
<b>Power vessels of 1,000 gross tons and over, total</b> .....	1, 729	2, 752	2, 461	2, 118	2, 037	6, 766	12, 116	11, 490	10, 496	10, 358
Steel.....	1, 436	2, 387	2, 310	2, 055	1, 982	6, 073	11, 210	11, 147	10, 389	10, 259
Wood.....	293	365	151	61	55	694	906	344	107	99
Passenger.....	208	238	197	198	202	887	1, 271	1, 214	1, 270	1, 317
Freight.....	1, 328	2, 145	1, 853	1, 532	1, 447	4, 822	8, 620	7, 817	6, 869	6, 669
Tank.....	179	351	396	372	374	982	2, 124	2, 377	2, 282	2, 297
Refrigerator.....	14	18	15	14	14	75	101	83	75	75
Steam engine.....	2, 697	2, 395	2, 042	1, 951	-----	11, 984	11, 315	10, 234	10, 024	-----
Oil burning.....	1, 595	1, 692	1, 632	1, 613	-----	8, 240	8, 889	8, 650	8, 647	-----
Coal burning.....	1, 102	703	410	338	-----	3, 744	2, 426	1, 584	1, 377	-----
Oil engine (internal-combustion).....	55	2 66	2 74	2 86	-----	132	175	262	334	-----
<b>Size—gross tons</b>										
1, 000 to 1, 999.....	186	151	165	125	116	297	234	265	185	174
2, 000 to 2, 999.....	652	879	630	425	357	1, 609	2, 209	1, 588	1, 102	949
3, 000 to 3, 999.....	221	362	306	230	227	754	1, 232	1, 053	762	751
4, 000 to 4, 999.....	133	199	230	215	213	610	922	1, 074	1, 005	996
5, 000 to 5, 999.....	215	558	503	505	503	1, 192	3, 110	2, 824	2, 806	2, 823
6, 000 to 6, 999.....	208	337	350	345	341	1, 325	2, 149	2, 220	2, 207	2, 177
7, 000 to 7, 999.....	60	153	153	145	145	450	1, 164	1, 133	1, 066	1, 067
8, 000 to 8, 999.....	23	54	58	57	59	217	451	485	477	464
9, 000 to 9, 999.....	3	10	23	27	26	26	96	220	259	249
10, 000 and over.....	25	44	43	42	45	284	548	629	627	678

<sup>1</sup> One thousand gross tons or over; the Shipping Board fleet is almost wholly of such vessels.

<sup>2</sup> Includes 9 vessels of 25,819 gross tons, propelled by electrically driven screws.

**No. 472.—VESSELS BUILT IN THE UNITED STATES AND DOCUMENTED FOR  
AMERICAN SHIPOWNERS: YEARS ENDED JUNE 30**

Yearly average or year	Number	Gross tons	Year	Number	Gross tons
1797-1800.....	-----	72, 574	1910.....	1, 361	342, 068
1801-1810.....	-----	1 102, 452	1911.....	1, 422	291, 162
1811-1820.....	-----	58, 797	1912.....	1, 505	232, 689
1821-1830.....	700	86, 372	1913.....	1, 475	346, 155
1831-1840.....	924	118, 960	1914.....	1, 151	316, 250
1841-1850.....	1, 195	185, 309	1915.....	1, 157	225, 122
1851-1860.....	1, 466	366, 603	1916.....	937	325, 413
1861-1870.....	1, 654	299, 602	1917.....	1, 297	664, 479
1871-1880.....	1, 455	253, 800	1918.....	1, 523	1, 300, 868
1881-1890.....	1, 056	230, 197	1919.....	1, 953	3, 325, 621
1891-1900.....	1, 055	235, 699	1920.....	2, 067	3, 880, 639
1901-1910.....	1, 311	418, 178	1921.....	1, 361	2, 265, 115
1911-1920.....	1, 449	1, 090, 938	1922.....	845	661, 232
1904.....	1, 184	378, 542	1923.....	770	335, 630
1905.....	1, 102	330, 316	1924.....	1, 049	228, 968
1906.....	1, 221	418, 745	1925.....	967	199, 546
1907.....	1, 157	471, 332	1926.....	924	224, 673
1908.....	1, 457	614, 216	1927.....	917	245, 144
1909.....	1, 247	238, 090	1928.....	969	257, 180

<sup>1</sup> Nine-year average, there being no record of the tonnage for 1802

Source of Tables 471 and 472. Reports of the Commissioner of Navigation.

## No. 473.—VESSELS BUILT IN UNITED STATES: BY CLASSES AND REGIONS

NOTE.—For definition of "gross ton" see general note p 429. Data are for years ended June 30

Class and where built	1901- 1910, average	1911- 1915, average	1916- 1920, average	1921- 1925, average	1925	1926	1927	1928
BUILT AND DOCUMENTED IN THE UNITED STATES								
Total.....number.....	1,311	1,342	1,556	988	967	924	917	988
Gross tons.....	418,178	282,272	1,899,604	737,190	199,846	224,673	245,144	257,180
Sailing.....number.....	300	70	82	38	28	11	8	5
Gross tons.....	59,857	16,339	70,599	27,685	2,869	263	326	230
Steam and gas.....number.....	681	911	1,111	697	679	645	661	675
Gross tons.....	287,593	200,699	1,734,296	639,341	141,053	140,586	181,504	172,901
Canal boats.....number.....	46	36	19	9	2	7	10	1
Gross tons.....	5,022	4,099	2,613	1,049	270	1,508	2,147	140
Barges.....number.....	284	325	344	254	258	261	238	288
Gross tons.....	65,705	61,164	92,096	69,121	55,654	82,316	61,167	83,939
Metal.....gross tons.....	270,852	181,166	1,511,043	631,109	125,693	132,640	179,756	201,437
Wood.....do.....	147,326	101,106	388,561	106,081	74,153	92,027	65,388	56,743
Gross tons built on								
New England coast.....	59,491	21,474	112,835	45,913	5,615	4,995	6,574	11,434
Middle Atlantic and Gulf								
coasts.....	130,226	149,941	833,438	442,721	76,784	131,994	124,068	146,532
Pacific coast.....	34,482	34,439	687,076	174,926	41,534	22,669	45,565	23,715
Northern lakes.....	184,724	69,794	280,138	58,317	66,087	55,169	52,746	50,478
Western rivers.....	9,256	6,623	6,117	15,313	9,826	9,846	16,191	25,021

BUILT FOR FOREIGNERS<sup>1</sup>

	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1926	1927	1928
Number.....	1	2	5	36	41	22	59	23	33	10	4	7	9	12
Gross tons.....	12	414	275	2,949	124,560	48,531	121,098	39,507	65,938	55,991	17,408	272	610	1,228

<sup>1</sup> None were built for foreigners in 1924 and 1925.

Source: Reports of the Commissioner of Navigation.

## No. 474.—MERCHANT VESSELS LAUNCHED: WORLD TOTAL AND UNITED STATES

NOTE.—Vessels of 100 gross tons and over. For definition of "gross ton" see general note, p. 429. Vessels under construction Dec. 31, 1928, numbered 622 of 2,618,001 gross tons

Calendar year	World				United States	
	Total		Steam and motor			
	Number	Gross tons	Number	Gross tons	Number	Gross tons
1910-1914, average.....	1,533	2,739,079	1,180	2,631,779	162	252,864
1915-1920, average <sup>1</sup> .....	1,488	4,046,860	1,296	3,918,746	518	1,877,382
1921-1925, average.....	942	2,578,620	830	2,581,502	99	313,321
1918 <sup>1</sup> .....	1,866	5,447,444	1,697	5,341,199	929	3,033,030
1919 <sup>2</sup> .....	2,483	7,144,549	2,095	6,788,632	1,051	4,075,385
1920.....	1,759	5,861,666	1,563	5,742,984	509	2,476,253
1921.....	1,377	4,341,679	1,205	4,274,375	173	1,006,413
1922.....	851	2,467,084	745	2,425,729	59	119,138
1923.....	701	1,643,181	620	1,614,790	83	172,171
1924.....	924	2,247,751	838	2,200,741	79	139,463
1925.....	855	2,193,404	742	2,142,325	101	128,776
1926.....	600	1,674,977	525	1,630,134	78	150,613
1927.....	802	2,285,679	734	2,239,522	66	179,218
1928.....	889	2,699,239	809	2,660,321	63	91,357

<sup>1</sup> Figures during the war period are shown only for allied and neutral countries.<sup>2</sup> Figures for Germany are omitted because complete totals for that country are not available.

Source: Lloyd's Register of Shipping.

## No. 475.—MERCHANT MARINE OF THE WORLD AND THE UNITED STATES

NOTE.—Vessels of 100 tons and over Prior to 1919 tonnage figures are gross for steamers and net for sailing vessels, thereafter gross for both. Wooden vessels on the Great Lakes and vessels on the Caspian Sea are not included. Japanese sailing vessels and most sailing vessels belonging to Greece, Turkey, and southern Russia are not included. Figures for Philippine Islands are included with United States beginning with 1910. See general note, p. 429.

Year	World total	United States	Year	World total	United States	Year	World total	United States
	1,000 tons	1,000 tons		1,000 tons	1,000 tons		1,000 tons	1,000 tons
1895-----	25,086	2,165	1920-----	57,314	16,049	1925-----	64,641	15,377
1900-----	28,957	2,750	1921-----	61,975	17,026	1926-----	61,317	14,879
1905-----	35,998	3,996	1922-----	64,371	17,062	1927-----	65,193	14,670
1910-----	41,913	5,059	1923-----	65,166	16,945	1928-----	66,955	14,633
1915-----	49,262	5,893	1924-----	64,024	15,957			

	Number					Thousands of tons (see headnote)					
	1900	1910	1920	1925	1928	1900	1910	1914	1920	1925	1928
World total-----	28,422	30,058	31,595	32,918	32,408	29,044	41,915	49,090	57,314	64,641	66,955
Steam and motor-----	15,898	22,008	26,513	29,205	29,387	22,369	37,291	45,404	53,905	62,380	65,159
Steel and iron-----	14,548	20,403	23,382	26,468	26,929	21,915	36,769	44,934	51,661	61,317	64,364
Wood and composite-----	1,350	1,605	3,131	2,737	2,458	454	521	470	2,244	1,063	796
Sailing-----	12,524	8,050	5,082	3,711	3,021	6,674	4,624	3,686	3,409	2,261	1,795
Steel and iron-----	2,468	2,115	1,314	919	786	2,992	2,508	2,095	1,524	954	744
Wood and composite-----	10,056	5,935	3,768	2,792	2,235	3,683	2,116	1,590	1,885	1,307	1,051
United States-----	3,135	3,469	5,457	4,882	4,435	2,750	5,069	5,368	16,049	15,377	14,633
Steam and motor-----	932	1,712	4,110	3,921	3,653	1,455	3,827	4,330	14,574	14,272	13,703
Steel and iron-----	638	1,270	3,242	3,349	3,120	1,267	3,602	4,120	13,341	13,832	13,384
Wood and composite-----	294	442	868	572	533	188	226	210	1,234	391	309
Sailing-----	2,203	1,757	1,347	961	782	1,295	1,232	1,038	1,475	1,105	931
Steel and iron-----	93	139	154	155	148	180	245	236	304	323	295
Wood and composite-----	2,110	1,618	1,193	806	634	1,116	987	803	1,171	782	635

## No. 476.—EXPENSES AND REVENUES OF THE PANAMA CANAL

Year ended June 30—	Transit operations					Business operations		
	Tolls	Taxes, licenses, fees, fines, postal receipts, etc.	Total transit revenues	Net canal transit expenses	Net revenues (surplus)	Business revenues	Business expenses	Net revenues (surplus)
	Dollars	Dollars	Dollars	Dollars	Dollars	Dollars	Dollars	Dollars
1914-----	14,619	-----	14,619	166,031	<sup>1</sup> 151,418	690,298	695,721	<sup>1</sup> 5,428
1915-----	4,343,384	-----	4,343,384	4,123,128	220,256	2,135,075	2,191,476	<sup>1</sup> 56,401
1916-----	2,399,830	158,712	2,558,542	6,999,750	<sup>1</sup> 4,411,808	6,488,522	6,476,623	11,898
1917-----	5,631,782	176,617	5,808,399	6,788,048	<sup>1</sup> 979,649	7,579,588	7,540,161	39,428
1918-----	6,264,766	147,078	6,411,843	5,920,343	491,500	10,324,072	10,317,912	6,160
1919-----	6,156,119	197,898	6,354,017	6,112,195	241,822	13,684,881	13,623,854	61,027
1920-----	8,493,083	442,789	8,935,872	6,548,272	2,387,599	14,705,372	14,465,686	239,686
1921-----	11,201,919	778,197	12,040,117	9,328,300	2,711,817	15,232,317	14,668,106	564,211
Total <sup>1</sup> -----	44,565,501	1,901,291	46,466,792	45,986,067	480,725	70,840,125	69,979,538	860,587
Adjusted status to 1921 <sup>1</sup> -----	44,565,501	1,420,566	45,986,067	45,986,067	-----	71,459,710	70,359,400	1,100,310
1922-----	11,193,383	192,209	11,385,592	7,919,018	3,466,575	7,747,228	7,423,968	323,259
1923-----	17,507,631	184,214	17,691,844	7,690,778	10,001,067	10,872,843	9,732,201	1,140,613
1924-----	24,289,603	392,251	24,681,854	8,373,905	16,307,949	12,968,777	12,067,153	901,624
1925-----	21,374,664	207,954	21,582,618	8,116,693	13,465,925	14,564,115	13,798,198	785,917
1926-----	22,927,680	217,680	23,145,377	7,993,468	15,151,668	15,874,478	15,033,168	841,310
1927-----	24,217,185	391,624	24,608,809	8,997,715	15,611,094	15,878,655	15,002,118	876,537
1928-----	26,943,513	232,533	27,176,046	8,951,201	18,224,845	16,929,247	16,192,528	736,719
Grand total-----	193,018,937	3,239,030	196,257,966	104,028,846	92,229,121	166,295,053	159,808,734	6,486,319

<sup>1</sup> Deficit.

<sup>2</sup> To and including 1921 "Net revenues from business operations" shown in last column are included in "Taxes, licenses, etc." "Total transit revenues," and "Net revenues from transit operations"; therefore the \$480,725 shown under the latter is the net revenue to June 30, 1921, from all operations. In the adjusted total this item is transferred to "Surplus from business operations" by deducting from the amount shown in this column \$379,862, which is added to "Business expenses," to "Business revenues," and to "Surplus from business operations," to which is also added \$619,585 interest on public works in Panama and Colon received prior to June 30, 1921, but not taken up as a canal revenue.

Sources Table 475, Lloyd's Register; Table 476, Report of the Governor of the Panama Canal



# No. 477.—COMMERCIAL TRAFFIC THROUGH THE PANAMA CANAL: BY NATIONALITY OF VESSEL

NOTE—See general note, p. 429 Net tonnage is according to Panama Canal measurement

Nationality and year ended June 30	Number of vessels	Net tonnage (thousands)	Tolls (thousands of dollars)	Tons of cargo (thousands)	Nationality and year ended June 30	Number of vessels	Net tonnage (thousands)	Tolls (thousands of dollars)	Tons of cargo (thousands)
<b>Total traffic—</b>					<b>Chilean</b>				
1915-1928, total.	46, 833	204, 137	193, 308	215, 286	1915-1928, total.	774	2, 350	2, 062	1, 348
1915.....	1, 075	3, 793	4, 368	4, 888	1927.....	27	114	107	87
1916.....	1, 758	2, 396	2, 408	3, 094	1928.....	32	125	119	82
1917.....	1, 803	5, 799	5, 627	7, 059	<b>Danish</b>				
1918.....	2, 069	6, 574	6, 430	7, 532	1915-1928, total.	736	2, 672	2, 570	3, 601
1919.....	2, 024	6, 125	6, 173	6, 917	1927.....	46	198	188	262
1920.....	2, 478	8, 546	8, 514	9, 374	1928.....	69	285	272	380
1921.....	2, 892	11, 416	11, 277	11, 599	<b>Dutch</b>				
1922.....	2, 736	11, 417	11, 198	10, 885	1915-1928, total.	956	4, 646	4, 284	4, 833
1923.....	3, 967	18, 606	17, 508	19, 568	1927.....	105	575	542	572
1924.....	5, 230	26, 149	24, 251	26, 995	1928.....	137	644	561	637
1925.....	4, 673	22, 855	21, 401	23, 959	<b>Peruvian</b>				
1926.....	5, 197	24, 775	22, 931	26, 037	1915-1928, total.	865	2, 217	1, 710	1, 368
1927.....	5, 475	26, 228	24, 229	27, 748	1927.....	63	143	123	108
1928.....	6, 456	29, 459	26, 944	29, 631	1928.....	53	140	108	96
<b>United States</b>					<b>French</b>				
1915-1928, total.	20, 998	99, 698	93, 630	108, 022	1915-1928, total.	901	3, 583	3, 690	3, 549
1915.....	459	1, 700	2, 003	2, 188	1927.....	116	536	518	530
1916.....	213	653	724	849	1928.....	127	581	577	600
1917.....	404	1, 239	1, 238	1, 476	<b>Swedish</b>				
1918.....	567	1, 704	1, 714	2, 098	1915-1928, total.	600	2, 415	2, 039	3, 494
1919.....	784	2, 257	2, 327	2, 759	1927.....	106	395	330	652
1920.....	1, 129	3, 791	3, 806	4, 547	1928.....	111	480	397	705
1921.....	1, 210	4, 862	4, 785	5, 163	<b>Spanish</b>				
1922.....	1, 095	4, 972	4, 867	4, 951	1917-1928, total.	339	1, 099	1, 056	759
1923.....	1, 994	10, 209	9, 474	11, 035	1927.....	30	111	108	48
1924.....	2, 947	15, 807	14, 483	16, 654	1928.....	46	157	151	105
1925.....	2, 326	12, 271	11, 803	13, 080	<b>Italian</b>				
1926.....	2, 432	12, 565	11, 540	13, 711	1915-1928, total.	491	2, 135	2, 191	1, 680
1927.....	2, 685	13, 915	12, 720	15, 242	1927.....	74	344	363	308
1928.....	2, 753	13, 753	12, 646	14, 249	1928.....	118	581	568	499
<b>British</b>					<b>German</b>				
1915-1928, total.	13, 729	60, 333	57, 940	59, 717	1920-1928, total.	1, 167	4, 464	4, 069	5, 197
1927.....	1, 351	6, 943	6, 453	6, 437	1927.....	212	780	708	974
1928.....	1, 842	8, 977	8, 074	8, 075	1928.....	316	996	893	1, 185
<b>Norwegian.</b>					<b>Miscellaneous</b>				
1915-1928, total.	2, 373	8, 391	7, 704	9, 570	1915-1928, total.	1, 228	2, 387	2, 176	2, 500
1927.....	265	908	809	1, 052	1927.....	230	448	397	439
1928.....	313	1, 181	1, 052	1, 268	1928.....	351	649	579	708
<b>Japanese*</b>									
1915-1928, total.	1, 676	7, 748	8, 187	9, 619					
1927.....	165	818	863	1, 037					
1928.....	188	909	949	1, 041					

# No. 478.—COMMERCIAL TRAFFIC THROUGH PANAMA CANAL: BY DIRECTION

NOTE—A to P=Atlantic to Pacific, P to A=Pacific to Atlantic See also general note, p. 429

Years ended June 30—	Number of vessels	Thou- sands of gross tons	Thou- sands of net tons <sup>1</sup>	Thousands of cargo tons		
				Total	A to P	P to A
1915.....	1, 075	5, 417	3, 793	4, 888	2, 071	2, 817
1916.....	758	3, 597	2, 396	3, 094	1, 369	1, 725
1917.....	1, 803	8, 531	5, 799	7, 059	2, 929	4, 129
1918.....	2, 069	9, 371	6, 574	7, 532	2, 639	4, 893
1919.....	2, 024	7, 877	6, 125	6, 917	2, 740	4, 176
1920.....	2, 478	11, 060	8, 546	9, 374	4, 093	5, 282
1921.....	2, 892	14, 522	11, 418	11, 599	5, 892	5, 707
1922.....	2, 736	14, 361	11, 417	10, 885	5, 496	5, 389
1923.....	3, 967	23, 633	18, 606	19, 568	7, 086	12, 482
1924.....	5, 230	33, 412	26, 149	26, 995	7, 860	19, 135
1925.....	4, 673	29, 148	22, 855	23, 959	7, 398	16, 560
1926.....	5, 197	31, 673	24, 775	26, 037	8, 037	18, 000
1927.....	5, 475	33, 556	26, 228	27, 748	8, 583	19, 165
1928.....	6, 456	37, 203	29, 459	29, 631	8, 310	21, 321

<sup>1</sup> Panama Canal measurement

Source of Tables 477 and 478: Report of the Governor of the Panama Canal.

**No. 479.—CARGO TONNAGE THROUGH PANAMA CANAL: BY ORIGIN AND DESTINATION, YEARS ENDED DECEMBER 31**

[In thousands of cargo tons of 2,240 pounds]

Origin and destination	Atlantic to Pacific			Origin and destination	Pacific to Atlantic		
	1926	1927	1928		1926	1927	1928
Grand total.....	8,420	8,406	9,066	Grand total.....	19,168	20,697	20,336
To W. coast United States.....	3,308	3,437	3,802	To E coast United States.....	12,077	11,797	10,745
To W. coast other N. America.....	626	627	607	To E coast other N. America.....	1,316	1,850	1,224
To W. coast S. America.....	1,193	1,165	1,234	To Europe.....	5,520	6,609	5,188
To Asia.....	1,804	1,742	2,061	To Africa and S. America.....	254	441	179
To Australasia.....	1,489	1,434	1,363				
From E. coast United States, total.....	5,639	5,629	6,009	From W. coast United States, total.....	11,679	12,427	10,068
To W. coast United States.....	2,655	2,725	2,915	To E coast United States.....	8,267	8,183	6,848
To W. coast other N. America.....	180	144	156	To E coast other N. America.....	749	1,023	468
To W. coast S. America.....	432	365	366	To Europe.....	2,560	2,966	2,696
To Asia.....	1,576	1,634	2,013	To Africa and S. America.....	103	255	47
To Australasia.....	796	761	558				
From E. coast other N. America, total.....	700	585	619	From W. coast other N. America, total.....	1,970	2,005	3,295
To W. coast N. America.....	208	231	294	To E. coast N. America.....	813	719	628
To W. coast S. America.....	81	91	97	To Europe.....	1,131	1,263	2,633
To Asia.....	215	87	41	To Africa and S. America.....	26	23	34
To Australasia.....	196	176	156				
From Europe, total.....	1,843	2,008	2,282	From W. coast S. America, total.....	4,559	5,139	5,666
To W. coast N. America.....	771	801	933	To E coast United States.....	2,773	2,534	2,859
To W. coast S. America.....	674	699	764	To E coast other N. America.....	367	562	451
To Asia and Australasia.....	498	508	585	To Europe.....	1,295	1,880	2,253
				To Africa and S. America.....	124	164	98
From E. coast S. America and Africa, total.....	138	183	156	From Asia and Australasia, total.....	957	1,128	1,286
				To E coast N. America.....	424	626	685
				To Europe.....	534	500	602

Source: Panama Canal Record.

**No. 480.—LIVES LOST BY ACCIDENT ON VESSELS SUBJECT TO UNITED STATES STEAMBOAT INSPECTION SERVICE: YEARS ENDED JUNE 30**

Cause	1922	1923	1924	1925	1926	1927	1928		
							Total	Passengers	Crew
Total.....	266	247	297	310	368	262	275	81	194
Fire.....	8	7	8	31	8	6	17	-----	17
Collision.....	5	20	9	3	4	8	19	7	12
Grounding.....	-----	-----	4	1	-----	1	2	-----	2
Wreck.....	-----	-----	22	-----	11	1	-----	-----	-----
Explosion, escape of steam, etc.....	12	10	10	9	97	13	8	-----	8
Foundered in storm.....	11	5	38	43	4	12	7	-----	7
Sinking.....	52	14	19	8	52	22	28	27	1
Accidental drowning.....	87	94	107	100	89	104	100	20	80
Suicide.....	34	39	31	36	36	34	30	20	10
Miscellaneous.....	57	58	49	39	67	61	64	7	57

Source Steamboat Inspection Service, Department of Commerce

**No. 481.—UNITED STATES COAST GUARD: YEARS ENDED JUNE 30**

Item	1927	1928	Item	1927	1928
Lives saved or persons rescued from peril.....	3,313	3,983	Instances of lives saved and vessels assisted.....	2,791	3,262
Persons on board vessels assisted.....	14,496	17,383	Instances of miscellaneous assistance.....	2,717	3,584
Persons in distress cared for.....	899	690	Derelicts and other obstructions to navigation removed or destroyed.....	136	167
Vessels boarded and papers examined.....	68,223	65,710	Value of vessels assisted (including cargoes).....	\$37,801,357	\$39,479,729
Vessels seized or reported for violations of law.....	1,788	1,554	Total expended and obligated for the Coast Guard.....	\$24,626,321	\$27,854,307
Fines and penalties incurred by vessels reported.....	\$375,069	\$279,510			

Source. Annual Reports of the Secretary of the Treasury.

### No. 482.—MARINE WRECKS AND CASUALTIES OCCURRING TO VESSELS OF THE UNITED STATES: By Regions

NOTE.—The table covers all disasters involving damage or loss amounting to \$300 or more. The figures exclude some reports of casualties to United States vessels received after the closing of the report for the year which are not distributed by regions. These were in 1927 as follows: Number of vessels completely lost, 15; tonnage, 5,074; vessels partially lost, 28; tonnage, 90,563; value of property lost, vessels \$870,127, cargoes \$4,500; persons on board, passengers 27, crews 804; loss of life, 1. Casualties to United States vessels in the Panama Canal Zone, which are excluded, were in 1928 as follows: Vessels involved, 12; tonnage, 76,113; property loss, \$128,380; persons on board, 458; no loss of life.

Yearly average or year	Number of vessels		Vessel capacity—1,000 tons		Losses—1,000 dollars		Persons on board		Lives lost
	Complete loss	Partial loss	Complete loss	Partial loss	To vessel	To cargo	Passengers	Crews	
<b>Total.</b>									
1905-1910.....	358	1,091	145	1,666	10,781	2,671	17,038	21,954	461
1911-1915.....	296	952	126	1,496	9,551	2,341	17,389	22,295	288
1916-1920.....	322	678	192	1,487	39,440	13,803	9,889	19,733	651
1921-1925.....	253	665	113	1,808	18,794	4,374	10,207	19,859	189
1920.....	285	789	215	2,089	54,955	17,612	14,499	26,100	551
1921.....	222	555	122	1,435	28,603	6,269	7,081	16,005	206
1922.....	277	630	131	1,762	18,728	3,976	8,989	19,065	227
1923.....	273	707	117	1,941	17,203	3,711	14,144	21,198	116
1924.....	257	708	96	1,917	14,201	3,803	8,861	20,255	202
1925.....	255	725	96	1,986	15,177	4,114	11,958	22,771	196
1926.....	254	728	94	2,015	15,597	4,324	12,331	21,970	236
1927.....	300	933	118	2,788	18,704	5,315	10,493	27,635	222
1928.....	273	769	107	2,286	16,570	4,135	14,856	23,482	166
<b>Atlantic, Gulf, and Pacific coasts of the United States:</b>									
1921-1925.....	148	370	58	802	8,856	1,895	5,996	9,908	98
1926.....	163	421	59	1,018	10,364	2,055	8,244	12,236	145
1927.....	175	510	63	1,303	10,240	1,627	5,629	13,602	125
1928.....	170	456	52	1,176	8,185	1,786	6,652	12,237	73
<b>Great Lakes:</b>									
1921-1925.....	20	92	11	357	1,894	192	1,491	2,586	25
1926.....	18	73	4	216	1,366	120	1,513	1,792	17
1927.....	20	109	17	409	2,823	197	927	3,286	5
1928.....	18	118	13	435	3,053	27	2,695	2,965	31
<b>Rivers of the United States:</b>									
1921-1925.....	45	86	7	160	1,815	127	820	1,881	12
1926.....	49	108	4	260	1,542	33	1,422	2,873	8
1927.....	63	136	7	314	1,994	153	1,152	3,217	24
1928.....	54	74	9	151	1,581	220	2,088	1,860	11
<b>At sea and on the coasts of foreign countries:</b>									
1921-1925.....	39	118	36	490	6,230	2,161	1,900	5,484	55
1926.....	24	126	27	521	2,325	2,116	1,152	5,069	66
1927.....	37	178	31	761	3,647	3,383	2,785	7,530	68
1928.....	31	121	32	523	3,751	2,102	3,421	6,420	51

Source: Reports of the United States Coast Guard, Treasury Department.

### No. 483.—UNITED STATES SHIPPING BOARD AND UNITED STATES SHIPPING BOARD MERCHANT FLEET CORPORATION: NET APPROPRIATIONS AND ALLOTMENTS FROM INCEPTION TO JULY 1, 1928

<b>For fiscal years ended prior to July 1, 1927.....</b>	<b>\$3,561,462,191</b>
United States Shipping Board.....	4,456,185
United States Shipping Board Emergency Fleet Corporation.....	3,557,006,006
Act of Sept. 7, 1916, permanent fund.....	50,000,000
Acts from June 15, 1917, to June 12, 1922, emergency shipping fund.....	3,325,863,502
Acts of Feb. 13, 1923, June 7, 1924, Mar. 3, 1925, and Apr. 22, 1926, current maintenance and operations.....	117,900,000
Act of June 12, 1922, claims, damage charges, and miscellaneous adjustments.....	38,254,185
Acts of Apr. 17, 1917, and July 1, 1918, national security and defense (presidential allotments).....	24,983,819
<b>For fiscal year ended June 30, 1928.....</b>	<b>17,290,000</b>
United States Shipping Board.....	290,000
United States Shipping Board Emergency Fleet Corporation—for current maintenance and operations.....	17,000,000
<b>For fiscal year ending June 30, 1929.....</b>	<b>18,688,750</b>
United States Shipping Board.....	288,750
United States Shipping Board Emergency Fleet Corporation.....	18,400,000
Current maintenance and operations.....	13,400,000
Operation of trade lines, ex-purchasers (expenditures on approval of President of the United States).....	5,000,000
<b>Net appropriations and allotments to June 30, 1929.....</b>	<b>3,597,440,941</b>

Source: United States Shipping Board.

**No. 484.—UNITED STATES SHIPPING BOARD AND UNITED STATES SHIPPING BOARD MERCHANT FLEET CORPORATION: STATEMENT OF PROFIT AND LOSS (EXCLUDING LIQUIDATION), FISCAL YEAR 1928**

[All money figures in thousands of dollars]

	Grand total	Ocean operations					Tugs	Chartered vessels
		Total	United States lines	Other passenger lines	Freighters	Tankers		
Number of voyages terminated.....	1,280	1,272	61	52	1,095	64	8	-----
Cargo carried.....thousand tons..	9,816	9,816	202	164	8,852	598	-----	-----
Passengers carried.....	94,170	94,170	88,891	5,279	-----	-----	-----	-----
Voyage revenue, estimated.....	78,602	78,501	16,266	2,651	58,218	1,365	58	49
Operating costs, total.....	93,703	93,654	16,731	2,734	72,988	1,200	30	18
Voyage expense.....	76,724	76,700	14,223	2,331	59,284	862	24	-----
Adjustment.....	1,094	1,094	162	60	850	22	-----	-----
Insurance.....	4,104	4,099	409	83	3,504	103	2	4
Repairs.....	-----	-----	-----	-----	-----	-----	-----	-----
Maintenance.....	6,668	6,656	964	123	5,394	175	4	9
Betterments.....	639	639	286	36	315	2	-----	-----
Advertising.....	572	572	382	24	166	-----	-----	-----
Administrative expense.....	3,902	3,895	306	76	3,477	37	(1)	6
Profit or loss on vessel operations.....	<sup>1</sup> 15,100	<sup>2</sup> 15,153	<sup>2</sup> 465	<sup>2</sup> 83	<sup>2</sup> 14,770	165	23	30
Expenses of inactive vessels.....	2,075	-----	-----	-----	-----	-----	-----	-----
Miscellaneous income.....	894	-----	-----	-----	-----	-----	-----	-----
Net loss.....	<sup>1</sup> 6,879	-----	-----	-----	-----	-----	-----	-----

<sup>1</sup> \$439

<sup>2</sup> Loss.

Source United States Shipping Board.

**No. 485.—SHIPPING BOARD VESSELS SOLD; BY TYPE.**

NOTE.—Data for earlier years are as follows: 1921, grand total, 50 vessels of 254,125 dead-weight tons; 20 steel vessels of 157,875 dead-weight tons, 30 wood vessels of 96,250 dead-weight tons, 1922, grand total, 362 vessels of 1,510,676 dead-weight tons, 104 steel vessels of 582,249 dead-weight tons, 1 concrete vessel of 7,500 dead-weight tons, 10 composite vessels of 35,600 dead-weight tons, and 247 wood vessels of 885,327 dead-weight tons; 1923, grand total, 112 vessels of 728,721 dead-weight tons, 106 steel vessels of 705,108 dead-weight tons, 1 concrete vessel of 3,078 dead-weight tons, 1 composite vessel of 3,575 dead-weight tons, and 4 wood vessels of 16,960 dead-weight tons

Type	1924		1925		1926		1927		1928	
	Num-ber	Dead-weight tons <sup>1</sup>	Num-ber	Dead-weight tons <sup>1</sup>	Num-ber	Dead-weight tons <sup>1</sup>	Num-ber	Dead-weight tons <sup>1</sup>	Num-ber	Dead-weight tons <sup>1</sup>
Grand total.....	49	345,396	147	768,142	278	1,415,536	49	304,921	82	692,876
Steel vessels.....	46	328,224	141	747,474	275	1,415,536	48	304,921	81	692,876
Cargo.....	22	122,980	107	545,198	258	1,250,156	37	215,175	76	649,602
Passenger.....	12	136,510	8	91,999	8	90,825	1	11,000	-----	-----
Tankers.....	4	40,102	9	84,627	6	53,500	9	71,668	4	34,574
All other.....	6	11,325	15	4,000	-----	-----	-----	-----	1	8,700
For conversion to Diesel—	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Cargo.....	-----	-----	1	11,679	-----	-----	-----	-----	-----	-----
Tankers.....	2	17,307	1	9,971	3	21,055	1	7,078	-----	-----
Concrete vessels.....	3	17,172	2	9,298	-----	-----	-----	-----	-----	-----
Composite vessels—Cargo.....	-----	-----	1	3,500	-----	-----	-----	-----	-----	-----
Wood vessels.....	-----	-----	3	7,870	3	-----	1	-----	1	-----

<sup>1</sup> See general note, p. 429. No tonnage is shown on tugs, the number includes tugs

Source United States Shipping Board

# **No. 486.—VESSELS CONTROLLED BY THE UNITED STATES SHIPPING BOARD MERCHANT FLEET CORPORATION: AS OF DECEMBER 31, 1928**

NOTE.—For definition of dead-weight tons see general note, p. 429. The number of tugs is shown under "All other" except as noted, there is no tonnage for these.

Origin and class	1923	1928		Class	1923	1928	
	Dead-weight tons	Number	Dead-weight tons		Dead-weight tons	Number	Dead-weight tons
<b>Grand total</b> -----	<b>9,185,452</b>	<b>717</b>	<b>5,624,665</b>	<b>Active steel</b> -----	<b>3,362,576</b>	<b>260</b>	<b>2,298,014</b>
<b>ORIGIN</b>				Cargo-----	2,875,947	243	2,163,386
Requisitioned steel	1,461,634	125	1,058,852	Cargo and passenger	278,734	11	115,330
Contract steel	7,280,775	560	4,364,192	Tankers	194,158	2	19,298
Contract wood or concrete	63,153	1	7,500	All other	13,737	4	-----
Purchased	153,846	13	106,462	<b>Temporarily inactive steel</b>	<b>208,847</b>	-----	-----
Seized enemy	215,144	8	87,659	<b>Inactive steel</b> -----	<b>5,550,476</b>	<b>449</b>	<b>3,319,151</b>
All other	5,900	3	-----	Cargo	5,126,361	430	3,174,441
<b>CLASS</b>				Cargo and passenger	127,952	2	17,000
Steel	9,119,899	709	5,617,165	Refrigerators	82,483	13	92,220
Cargo (completed)	8,140,521	672	5,328,427	U S Army transports	38,235	-----	-----
Cargo and passenger	431,768	13	132,330	Tankers	175,445	4	35,490
Tankers	395,055	6	54,788	<b>Wood and composite, active and inactive, and inactive concrete</b>	<b>65,553</b>	<b>18</b>	<b>7,500</b>
Refrigerators	100,920	13	92,220				
Transports	38,235	-----	-----				
All other	13,400	5	9,400				
<b>Wood and composite and concrete</b> -----	<b>65,553</b>	<b>18</b>	<b>7,500</b>				

<sup>1</sup> Includes 7 tugs.

## **No. 487.—CARGO TONNAGE OF FOREIGN AND INTERCOASTAL COMMERCE**

NOTE.—In thousands of cargo tons of 2,240 pounds. Coastwise trade other than from Atlantic and Gulf to Pacific and vice versa is not included.

	Total United States ports			Atlantic coast ports			Gulf coast ports		
	1925	1926	1927	1925	1926	1927	1925	1926	1927
<b>Total commerce</b> -----	<b>1105,553</b>	<b>1127,196</b>	<b>1113,734</b>	<b>57,194</b>	<b>74,696</b>	<b>58,152</b>	<b>21,984</b>	<b>22,435</b>	<b>21,314</b>
Inbound	53,821	56,878	54,570	32,868	36,578	35,698	8,977	8,477	6,664
Outbound	60,299	80,367	69,536	24,326	38,118	22,454	13,007	13,958	14,650
<b>With foreign countries</b> -----	<b>92,801</b>	<b>112,826</b>	<b>99,118</b>	<b>48,049</b>	<b>63,962</b>	<b>47,210</b>	<b>20,959</b>	<b>21,488</b>	<b>20,029</b>
Imports	43,135	44,686	42,183	26,151	28,614	27,436	8,539	8,184	6,094
Exports	49,666	68,140	56,935	21,898	35,348	19,774	12,420	13,304	13,935
<b>Intercoastal</b> -----	<b>8,567</b>	<b>10,049</b>	<b>10,372</b>	<b>7,845</b>	<b>9,490</b>	<b>9,720</b>	<b>722</b>	<b>559</b>	<b>652</b>
Inbound	8,567	10,049	10,372	5,949	7,268	7,565	409	245	278
Outbound	8,567	10,049	10,372	1,896	2,222	2,155	313	314	374
<b>With noncontiguous territories</b> -----	<b>4,185</b>	<b>4,321</b>	<b>4,244</b>	<b>1,300</b>	<b>1,244</b>	<b>1,222</b>	<b>303</b>	<b>388</b>	<b>633</b>
Imports	2,119	2,143	2,015	768	696	697	29	48	292
Exports	2,066	2,178	2,229	532	548	525	274	340	341
	Pacific coast ports			Great Lakes ports			Ports in noncontiguous territories <sup>2</sup>		
	1925	1926	1927	1925	1926	1927	1925	1926	1927
<b>Total commerce</b> -----	<b>22,107</b>	<b>26,900</b>	<b>28,912</b>	<b>12,835</b>	<b>13,214</b>	<b>15,728</b>	<b>7,283</b>	<b>7,592</b>	<b>7,566</b>
Inbound	6,133	6,647	6,390	5,843	5,176	5,818	4,277	4,241	4,278
Outbound	15,974	20,253	22,522	6,992	8,038	9,910	5,569	3,321	3,288
<b>With foreign countries</b> -----	<b>10,958</b>	<b>14,162</b>	<b>16,157</b>	<b>12,835</b>	<b>13,214</b>	<b>15,728</b>	<b>1,877</b>	<b>2,043</b>	<b>1,941</b>
Imports	2,602	2,712	2,835	5,843	5,176	5,818	1,446	1,562	1,510
Exports	8,356	11,450	13,316	6,992	8,038	9,910	431	481	431
<b>Intercoastal</b> -----	<b>8,567</b>	<b>10,049</b>	<b>10,372</b>	-----	-----	-----	-----	-----	-----
Inbound	2,209	2,536	2,529	-----	-----	-----	-----	-----	-----
Outbound	6,358	7,513	7,843	-----	-----	-----	-----	-----	-----
<b>With noncontiguous territories</b> -----	<b>2,582</b>	<b>2,689</b>	<b>2,389</b>	-----	-----	-----	<sup>3</sup> 5,406	<sup>3</sup> 5,519	<sup>3</sup> 5,625
Imports	1,322	1,399	1,026	-----	-----	-----	<sup>3</sup> 2,831	<sup>3</sup> 2,679	<sup>3</sup> 2,768
Exports	1,260	1,290	1,363	-----	-----	-----	<sup>3</sup> 2,575	<sup>3</sup> 2,840	<sup>3</sup> 2,857

<sup>1</sup> Duplication in intercoastal trade is eliminated.

<sup>2</sup> Including Philippine Islands.

<sup>3</sup> With continental United States.

Sources of Tables 486 and 487: United States Shipping Board.

## No. 488.—CARGO TONNAGE OF WATER-BORNE IMPORTS AND EXPORTS

NOTE.—In thousands of cargo tons of 2,240 pounds. This and the following tables do not include cargoes (small in aggregate) carried by ships of less than 100 tons gross capacity

	Imports in vessels of—					Exports in vessels of—				
	Total	U S Ship- ping Board	Inde- pend- ent Ameri- can	Brit- ish	Other	Total	U S Ship- ping Board	Inde- pend- ent Ameri- can	Brit- ish	Other
<b>Total</b>										
1921.....	33,057	4,835	18,635	(1)	9,587	48,431	7,254	11,150	(1)	30,027
1922.....	44,632	5,269	22,665	8,600	8,148	42,502	6,644	10,205	14,109	11,544
1923.....	43,296	3,031	19,753	9,218	11,294	49,080	6,903	9,286	18,824	14,067
1924.....	40,899	2,603	19,630	8,406	10,200	52,261	6,663	11,653	18,867	15,078
1925.....	43,135	2,285	18,930	9,586	12,334	49,666	5,624	10,092	18,536	15,504
1926.....	44,686	2,886	18,217	10,702	12,879	68,140	5,591	11,531	28,209	22,749
1927.....	42,153	2,195	19,263	9,323	11,397	50,935	6,185	12,510	20,728	17,512
1928.....	45,642	1,904	21,498	10,133	12,107	57,035	4,871	13,732	20,567	17,845
<b>Per cent distribution:</b>										
1921.....	100 0	15	56	(1)	29	100 0	15	23	(1)	62
1922.....	100 0	6	41	24	29	100 0	8	17	42	33
1923.....	100 0	5	46	22	27	100 0	11	22	37	30
1928.....	100 0	4	47	22	27	100 0	9	24	36	31
<b>Dry cargoes</b>										
1921.....	15,695	2,173	6,192	(1)	7,330	42,451	6,529	9,483	(1)	26,430
1922.....	25,526	3,162	8,106	7,259	6,999	36,062	6,386	8,144	11,276	10,256
1923.....	27,962	2,724	8,253	7,531	9,454	39,592	6,713	9,104	13,985	11,790
1924.....	26,242	2,267	8,462	6,914	8,599	41,204	6,400	8,290	14,146	12,308
1925.....	30,352	2,077	9,691	8,065	10,519	39,241	5,467	6,574	14,348	12,852
1926.....	32,085	2,323	9,132	9,386	11,244	55,851	5,486	7,835	23,222	19,305
1927.....	30,740	2,027	10,382	8,165	10,166	43,416	5,986	8,617	15,449	13,364
1928.....	31,991	1,900	11,269	8,530	10,292	42,340	4,827	9,487	15,500	12,526
<b>Per cent distribution:</b>										
1921.....	100 0	14	39	-----	47	100 0	15	22	-----	63
1922.....	100 0	7	34	26	33	100 0	14	20	35	31
1928.....	100 0	6	35	27	32	100 0	11	22	37	30
<b>Tanker cargoes:</b>										
1921.....	17,362	2,662	12,443	(1)	2,257	5,980	725	1,667	-----	3,588
1922.....	19,156	2,107	14,559	1,841	1,149	6,440	258	2,061	2,833	1,288
1923.....	15,354	307	11,500	1,687	1,840	9,488	190	2,182	4,839	2,277
1924.....	14,657	396	11,168	1,492	1,601	11,057	203	3,363	4,721	2,770
1925.....	12,753	208	9,239	1,521	1,815	10,425	157	3,518	4,038	2,712
1926.....	12,601	565	9,085	1,316	1,635	12,289	105	3,693	5,047	3,444
1927.....	11,443	168	8,882	1,163	1,230	13,519	199	3,893	5,279	4,148
1928.....	13,651	4	10,229	1,603	1,815	14,695	44	4,265	5,067	5,319
<b>Per cent distribution:</b>										
1921.....	100 0	15	72	-----	13	100 0	12	28	-----	60
1922.....	100 0	1	78	10	11	100 0	1	30	39	30
1928.....	100 0	-----	75	12	13	100 0	-----	29	85	36
<b>North Atlantic ports</b>										
1923.....	24,270	1,891	7,886	6,249	8,244	20,715	2,909	2,094	7,942	7,770
1924.....	22,351	1,682	7,885	5,596	7,188	20,696	2,873	2,516	7,855	7,452
1925.....	24,069	1,501	7,756	6,224	8,583	20,817	2,504	2,595	7,891	7,827
1926.....	26,449	1,895	8,781	6,720	9,053	33,994	2,164	3,352	15,330	13,148
1927.....	25,860	1,358	10,400	5,955	8,147	18,648	2,234	2,972	6,447	6,995
<b>South Atlantic ports.</b>										
1923.....	1,561	167	557	169	668	927	207	192	128	400
1924.....	1,726	97	571	535	523	822	202	152	162	306
1925.....	2,082	96	821	339	826	1,051	94	314	293	380
1926.....	2,165	121	1,003	349	692	1,354	220	69	486	579
1927.....	1,576	138	655	284	499	1,126	231	48	286	561
<b>Gulf ports:</b>										
1923.....	10,025	485	6,876	1,029	1,638	10,599	2,553	1,751	3,068	3,227
1924.....	9,889	400	6,987	812	1,690	12,805	2,607	2,321	3,823	4,054
1925.....	8,539	312	5,051	1,071	2,105	12,420	2,093	2,264	3,334	4,729
1926.....	8,184	552	4,304	1,062	2,266	13,304	2,445	2,043	3,650	5,166
1927.....	6,094	412	2,918	850	1,914	13,935	2,849	2,034	3,476	5,576
<b>Pacific ports:</b>										
1923.....	2,524	488	548	773	715	8,472	1,234	1,466	3,150	2,622
1924.....	2,585	484	551	765	785	9,360	981	2,233	2,898	3,248
1925.....	2,602	376	558	889	779	9,356	933	2,144	2,744	2,535
1926.....	2,712	320	681	877	834	11,450	762	2,912	4,021	3,755
1927.....	2,535	287	911	865	772	13,316	871	3,386	4,810	4,249
<b>Great Lakes ports:</b>										
1923.....	4,913	-----	3,886	968	29	8,367	-----	3,783	4,536	48
1924.....	4,348	-----	3,636	698	14	8,578	-----	4,431	4,129	18
1925.....	5,843	-----	4,744	1,063	36	6,992	-----	2,775	4,124	93
1926.....	5,176	-----	3,448	1,694	34	8,038	-----	3,155	4,782	101
1927.....	5,818	-----	4,379	1,374	65	9,910	-----	4,070	5,709	131

<sup>1</sup> British not segregated in 1921, included in "Other."

Source Bureau of Research, United States Shipping Board.

# No. 489.—CARGO TONNAGE OF WATER-BORNE IMPORTS AND EXPORTS: BY REGIONS OF ORIGIN AND DESTINATION AND METHOD OF CARRIAGE

[In thousands of cargo tons of 2,240 pounds]

Foreign trade region	1924	1925	1926	1927—In vessels of—				
				Total	U S Shipping Board	Independent American	British	Others
Imports, total.....	40,899	43,135	44,686	42,183	2,195	19,283	9,328	11,397
United Kingdom.....	1,644	1,923	1,946	1,385	126	153	923	183
North Atlantic and Baltic Europe.....	1,183	1,108	1,014	1,231	163	11	25	1,032
Havre-Hamburg range.....	2,763	3,366	4,498	3,481	737	148	449	2,147
South Atlantic Europe.....	443	487	564	399	32	6	163	198
West Mediterranean.....	303	1,143	1,192	1,174	15	166	225	768
East Mediterranean and Black Sea.....	818	412	420	429	-----	60	198	171
West Indies.....	5,896	6,702	8,042	7,763	44	3,815	1,595	2,309
Mexico.....	13,242	10,510	8,375	5,476	105	4,407	206	758
Central America.....	1,103	1,231	1,177	1,344	-----	477	204	668
North Coast South America.....	486	719	1,703	8,075	9	2,385	276	445
East Coast South America.....	1,416	1,287	1,682	1,720	329	484	437	470
West Coast South America.....	2,689	2,744	2,901	2,617	-----	1,501	326	790
West Africa.....	197	235	260	259	101	8	127	23
South and East Africa.....	210	201	250	247	-----	52	193	2
Australasia.....	94	103	108	131	13	19	71	28
East Indies.....	405	511	550	547	14	122	290	121
East Asia.....	1,182	1,344	1,249	1,391	478	239	251	423
India, Persian Gulf, and Red Sea.....	1,750	816	777	730	29	128	561	12
Pacific Canada.....	1,197	1,266	1,350	1,321	-----	596	598	127
Atlantic Canada and Newfoundland.....	5,289	6,996	6,628	7,463	-----	4,486	2,250	727
Exports, total.....	52,261	49,668	68,140	56,935	6,185	12,510	20,728	17,512
United Kingdom.....	8,229	7,459	19,505	8,634	1,483	461	5,576	1,114
North Atlantic and Baltic Europe.....	1,658	1,872	1,703	2,007	130	84	208	1,585
Havre-Hamburg range.....	8,442	8,023	8,525	9,252	2,576	428	1,434	4,814
South Atlantic Europe.....	1,255	1,274	2,055	1,365	154	123	323	765
West Mediterranean.....	4,225	3,650	4,434	2,864	218	176	357	2,113
East Mediterranean and Black Sea.....	625	654	829	527	17	130	132	248
West Indies.....	3,252	3,383	3,142	3,245	-----	1,595	602	988
Mexico.....	1,037	759	593	514	-----	291	9	214
Central America.....	1,105	1,453	1,755	2,084	84	1,687	176	137
North Coast South America.....	252	361	539	424	-----	203	43	178
East Coast South America.....	3,030	2,939	4,945	3,777	362	704	1,740	971
West Coast South America.....	1,255	1,200	1,306	1,270	-----	713	312	245
West Africa.....	197	280	474	290	110	36	95	49
South and East Africa.....	300	406	340	456	-----	112	321	23
Australasia.....	1,283	1,460	1,740	1,964	169	179	1,022	594
East Indies.....	229	289	406	403	18	78	173	134
East Asia.....	5,140	4,316	5,407	5,613	805	805	1,345	2,055
India, Persian Gulf, and Red Sea.....	425	403	453	465	31	115	236	83
Pacific Canada.....	712	719	854	910	19	369	512	10
Atlantic Canada and Newfoundland.....	9,616	8,764	9,135	10,871	9	4,221	6,049	592

Foreign trade region	Ocean-borne imports, 1927				Ocean-borne exports, 1927			
	North Atlantic	South Atlantic	Gulf	Pacific	North Atlantic	South Atlantic	Gulf	Pacific
Total.....	25,890	1,576	6,094	2,835	18,648	1,126	13,935	13,916
United Kingdom.....	1,115	37	144	84	3,645	228	2,888	1,873
North Atlantic and Baltic Europe.....	1,085	40	38	65	824	55	1,034	94
Havre-Hamburg range.....	2,308	307	465	401	4,220	404	3,772	796
South Atlantic Europe.....	443	11	6	524	2	-----	800	39
West Mediterranean.....	1,092	16	58	17	1,350	31	1,215	268
East Mediterranean and Black Sea.....	422	-----	7	-----	374	-----	150	3
West Indies.....	5,409	172	2,131	51	1,816	159	1,120	150
Mexico.....	3,338	428	1,611	99	143	3	153	215
Central America.....	540	21	728	55	585	-----	276	1,223
North Coast South America.....	2,612	164	287	12	335	-----	86	203
East Coast South America.....	1,310	25	221	154	1,714	120	734	1,203
West Coast South America.....	1,937	347	169	164	301	-----	35	934
West Africa.....	242	-----	17	-----	-----	-----	89	-----
South and East Africa.....	243	2	2	-----	271	-----	162	23
Australasia.....	99	-----	-----	32	501	-----	230	1,233
East Indies.....	520	-----	5	22	215	10	1	177
East Asia.....	624	-----	46	721	784	53	713	4,063
India, Persian Gulf, and Red Sea.....	612	7	106	6	251	-----	222	12
Pacific Canada.....	380	-----	9	932	-----	-----	17	882
Atlantic Canada and Newfoundland.....	1,606	4	30	14	608	1	258	100

Source: Bureau of Research, United States Shipping Board.

# No. 490.—CARGO TONNAGE OF WATER-BORNE IMPORTS AND EXPORTS: By TRADE REGIONS AND INDIVIDUAL COUNTRIES

NOTE.—In cargo tons of 2,240 pounds. Note that a country may appear in part under one trade region and in part under another. Minor countries are omitted but their trade is included in regional totals.

Foreign origin or destination	Imports			Exports		
	1925	1926	1927	1925	1926	1927
Grand total.....	43,135,154	44,686,235	42,182,967	49,668,499	63,139,521	56,935,043
United Kingdom.....	1,923,449	1,946,856	1,384,559	7,458,266	19,505,183	8,634,499
England.....	1,456,538	1,325,181	1,177,876	6,548,553	15,584,452	7,521,504
Ireland.....	8,506	5,902	5,537	268,378	971,829	410,114
Scotland.....	146,511	167,628	87,225	600,653	1,862,245	583,439
Wales.....	311,894	447,045	113,921	41,682	1,086,657	119,932
North Atlantic and Baltic Europe.....	1,108,060	1,014,477	1,230,993	1,872,209	1,708,767	2,007,297
Greenland.....	9,580	7,380	6,111	24	52	
U. S. S. R. (Russia).....	2,024	3,861	14,202	260,426	72,318	123,680
Finland.....	95,228	103,718	104,218	86,311	162,642	92,173
Norway.....	294,796	258,296	351,049	337,420	374,051	337,765
Sweden.....	609,316	520,991	688,918	294,451	338,804	424,781
Denmark.....	38,358	72,438	53,086	750,156	702,677	884,678
Danzig.....	27,937	20,547	27,760	51,394	22,528	95,022
Germany.....	30,186	26,748	885	00,319	18,475	30,457
Estonia.....	350	494		76	481	2,127
Latvia.....	285	1		31,625	10,756	15,763
Lithuania.....			2,754			600
Havre-Hamburg range.....	3,365,751	4,497,667	3,481,007	8,023,162	8,525,201	9,251,930
Germany.....	1,171,410	1,305,395	1,021,047	3,237,762	3,169,952	3,913,272
Netherlands.....	690,274	1,168,762	703,482	2,099,381	2,405,410	2,721,748
Belgium.....	1,205,612	1,688,457	1,373,920	1,655,619	1,506,626	1,634,446
France.....	298,455	335,053	382,498	1,030,400	1,443,117	982,494
South Atlantic Europe.....	486,880	584,297	399,159	1,274,491	2,054,653	1,365,149
France.....	51,117	52,898	47,433	945,061	1,200,622	937,141
Portugal.....	58,238	71,079	33,740	91,567	327,766	175,011
Spain.....	377,114	440,350	317,816	199,442	216,594	202,615
Azore Islands.....	343	370	437	14,748	20,658	4,938
Canary Islands.....	51	98	227	20,598	274,916	38,639
Madeira.....	12	2	4	3,075	14,096	6,775
West Mediterranean.....	1,142,727	1,192,536	1,173,881	3,650,376	4,434,093	2,863,723
Spain.....	268,793	230,049	161,241	349,729	439,798	301,536
France.....	82,195	84,438	80,602	603,453	651,633	625,735
Italy.....	518,097	495,863	427,496	2,511,976	2,957,433	1,761,379
Yugoslavia.....	67,027	56,119	32,893	365	5,864	240
Malta.....	55	31	269	18,036	53,824	11,703
Tunis.....	57,473	35,833	109,054	34,459	35,018	23,208
Algeria.....	148,937	278,254	361,235	125,039	266,567	110,645
Morocco.....	150	11,899	91	9,708	23,948	29,207
East Mediterranean and Black Sea.....	412,025	419,551	429,331	654,046	828,732	526,412
Bulgaria.....	772	859		1,065	2,121	
Rumania.....	1,007	20,940	4,271	5,432	13,438	13,513
U. S. S. R. (Russia).....		242,641	261,058	125,421	31,183	45,060
Crete.....			491	8,239		
Georgia.....	213,424			30,304		
Turkey.....	51,697	34,414	40,112	52,800	47,994	16,907
Cyprus.....			3,639			
Greece.....	70,505	45,669	36,537	242,396	286,284	289,220
Egypt.....	57,559	68,269	79,319	143,380	410,202	137,774
Palestine.....	246	177	176	4,835	20,188	6,120
Syria.....	8,627	2,268	3,728	37,943	16,927	18,048
West Indies.....	6,702,426	8,041,752	7,762,132	3,382,887	3,141,632	3,245,247
Cuba.....	5,572,928	5,948,097	4,924,189	2,547,346	2,142,739	2,306,626
Jamaica.....	303,502	300,133	372,055	128,309	156,204	135,419
Bahama Islands.....	38,372	29,114	14,012	32,216	49,722	37,764
Haiti.....	32,190	25,243	30,984	92,902	102,933	96,467
Dominican Republic.....	60,432	125,859	115,487	116,736	131,902	151,674
Lesser Antilles.....	690,910	1,607,020	2,301,854	426,434	491,257	468,227
Bermudas.....	4,092	6,280	2,970	38,944	38,875	49,070
Mexico.....	10,510,237	8,375,489	5,475,758	758,573	592,733	514,332
Central America.....	1,230,795	1,176,976	1,342,613	1,452,845	1,755,267	2,084,386
British Honduras.....	76,539	89,697	104,089	12,834	14,357	15,472
Guatemala.....	183,108	179,030	201,893	59,584	81,081	78,503
Honduras.....	425,612	375,347	515,884	114,099	87,515	139,592
Nicaragua.....	189,881	147,794	145,427	38,198	59,112	55,690
Costa Rica.....	148,001	157,427	156,374	38,837	41,949	45,438
Panama.....	64,823	45,174	43,289	7,758	4,369	8,100
Canal Zone.....	134,714	156,019	169,974	1,125,591	1,401,632	1,687,999
Salvador.....	7,817	26,488	5,683	55,944	65,242	55,062



No. 490.—CARGO TONNAGE OF WATER-BORNE IMPORTS AND EXPORTS: BY  
TRADE REGIONS AND INDIVIDUAL COUNTRIES—Continued

Foreign origin or destination	Imports			Exports		
	1925	1926	1927	1925	1926	1927
<b>North Coast South America</b> .....	719, 877	1, 703, 129	3, 074, 799	360, 912	538, 725	424, 312
Venezuela.....	287, 613	857, 091	1, 542, 094	145, 300	293, 456	214, 633
British Guiana.....	175, 213	180, 898	162, 433	27, 924	34, 147	26, 877
Netherlands Guiana.....	94, 326	48, 145	162, 370	17, 550	22, 901	21, 477
French Guiana.....	41	13	-----	2, 691	2, 089	2, 502
Colombia.....	162, 084	616, 982	1, 207, 902	167, 447	186, 132	158, 823
<b>East Coast South America</b> .....	1, 287, 420	1, 681, 748	1, 719, 786	2, 938, 921	4, 945, 361	3, 776, 428
Brazil.....	715, 477	821, 698	736, 642	1, 177, 286	2, 107, 281	1, 152, 179
Uruguay.....	33, 943	56, 716	44, 890	313, 434	473, 835	504, 870
Argentina.....	520, 621	789, 041	925, 416	1, 448, 152	2, 354, 133	2, 110, 337
South Atlantic Islands.....	17, 379	14, 293	12, 838	-----	10, 592	9, 042
<b>West Coast South America</b> .....	2, 744, 069	2, 600, 993	2, 617, 078	1, 200, 118	1, 305, 938	1, 269, 770
Colombia.....	24, 267	31, 732	12, 911	34, 284	56, 439	53, 629
Chile.....	2, 456, 052	2, 366, 623	2, 274, 196	312, 298	925, 122	861, 229
Peru.....	248, 872	489, 269	310, 557	229, 892	298, 471	314, 557
Ecuador.....	14, 878	13, 369	19, 414	23, 644	25, 906	40, 355
<b>West Africa</b> .....	234, 896	259, 795	259, 069	279, 860	473, 916	289, 563
Morocco.....	3, 778	3, 860	18, 067	32, 694	37, 427	34, 388
Cape Verde Islands.....	2	1	212	2, 477	120, 309	28, 852
Senegal.....	556	3, 734	3, 233	112, 722	154, 936	31, 466
Gambia.....	-----	-----	1, 366	-----	1, 045	1, 981
Sierra Leone.....	790	971	1, 169	8, 071	8, 153	9, 726
Liberia.....	149	178	384	1, 202	1, 869	4, 583
Ivory Coast.....	27, 608	34, 824	35, 970	4, 675	5, 750	6, 849
Gold Coast.....	154, 370	168, 521	136, 537	40, 402	46, 585	55, 809
Dahomey.....	2, 139	900	2, 327	6, 023	6, 595	6, 483
Nigeria.....	33, 228	30, 779	45, 912	40, 629	41, 795	67, 876
Cameroon.....	2	723	715	3, 057	4, 858	5, 813
Belgian Congo.....	11, 010	12, 600	13, 411	8, 715	25, 756	12, 924
Angola.....	13	18	14	2, 992	6, 216	6, 382
<b>South and East Africa</b> .....	200, 805	249, 861	247, 506	408, 450	339, 519	455, 797
Union of South Africa.....	42, 986	77, 373	46, 983	303, 118	234, 679	304, 477
Mozambique.....	149, 690	158, 836	192, 632	79, 040	63, 851	107, 308
British East Africa.....	1, 221	1, 2, 490	1, 6, 876	1, 12, 085	1, 14, 765	1, 24, 383
Madagascar.....	1, 634	4, 140	1, 014	4, 064	3, 442	5, 685
Mauritius Island.....	-----	-----	1	3, 359	5, 705	10, 576
<b>Australasia</b> .....	102, 997	108, 139	131, 488	1, 460, 341	1, 740, 354	1, 964, 047
New Zealand.....	28, 909	32, 714	50, 854	370, 864	437, 031	443, 711
Australia.....	47, 256	41, 482	41, 501	1, 057, 020	1, 263, 137	1, 468, 865
Fiji Islands.....	2, 040	4, 617	4, 256	4, 086	7, 843	5, 247
Friendly Islands.....	731	399	-----	319	1, 016	170
New Caledonia.....	5, 066	8, 872	11, 907	3, 886	5, 058	4, 680
Society Islands.....	11, 434	12, 111	12, 470	11, 475	9, 830	10, 132
Cook Islands.....	1, 963	918	813	319	610	450
Gilbert Islands.....	-----	700	503	-----	-----	-----
Tasmania.....	586	628	528	10, 626	13, 002	13, 184
New Guinea.....	5, 012	5, 698	2, 266	1, 746	2, 827	10, 761
<b>East Indies</b> .....	511, 437	549, 605	546, 849	289, 455	406, 417	403, 358
Straits Settlements.....	317, 554	369, 456	344, 005	71, 557	96, 213	125, 098
French Indo-China.....	743	179	-----	33, 473	45, 279	32, 533
Sumatra.....	52, 681	53, 717	58, 326	30, 236	42, 653	43, 026
Java.....	118, 242	103, 194	121, 435	133, 138	158, 437	163, 022
Borneo.....	7, 598	3, 373	5, 103	8, 277	43, 219	28, 507
Celebes.....	9, 939	13, 091	17, 654	2, 298	4, 657	5, 901
<b>East Asia</b> .....	1, 343, 720	1, 249, 425	1, 390, 691	4, 318, 487	5, 407, 362	5, 612, 671
China.....	317, 948	289, 415	259, 448	1, 348, 198	1, 459, 888	1, 278, 155
U. S. S. R. (Russia).....	1, 548	2, 075	525	307	1, 018	925
Japan.....	259, 532	261, 104	288, 252	2, 512, 348	3, 445, 576	3, 794, 396
Philippine Islands.....	764, 692	696, 831	842, 466	455, 634	500, 880	539, 195
<b>India, Persian Gulf, and Red Sea</b> .....	816, 387	778, 656	730, 289	403, 209	452, 986	464, 945
Iraq.....	34, 400	20, 792	20, 118	-----	22	-----
Arabia.....	5, 304	4, 557	612	11, 867	5, 251	1, 811
India.....	713, 247	666, 210	617, 420	364, 571	416, 256	417, 425
Ceylon.....	62, 317	72, 385	74, 166	20, 362	30, 395	36, 107
<b>Canada</b> .....	8, 291, 788	7, 977, 733	8, 786, 049	9, 482, 679	9, 988, 642	11, 781, 889
Pacific.....	1, 295, 671	1, 349, 540	1, 321, 352	718, 679	853, 558	909, 988
Atlantic and Newfoundland.....	1, 162, 505	1, 452, 699	1, 647, 005	1, 774, 227	1, 097, 764	961, 812
Great Lakes.....	5, 833, 390	5, 175, 544	5, 817, 692	6, 989, 992	8, 037, 320	9, 909, 789

<sup>1</sup> Kenya and Tanganyika Territory only

Source. Bureau of Research, United States Shipping Board.

# NO. 491.—CARGO TONNAGE OF WATER-BORNE IMPORTS AND EXPORTS: BY STATES AND INDIVIDUAL PORTS

NOTE.—In cargo tons of 2,240 pounds. State totals cover all tonnage, including small ports not shown

State and port	Imports			Exports		
	1925	1926	1927	1925	1926	1927
<b>Atlantic ports, total</b> .....	26, 103, 390	27, 943, 698	27, 348, 849	21, 962, 379	34, 875, 556	19, 748, 314
Maine, total.....	548, 220	688, 785	694, 023	241, 669	243, 937	154, 599
Portland.....	511, 962	644, 707	648, 195	240, 061	243, 882	154, 599
New Hampshire: Portsmouth.....		22, 044	39, 230			13
Massachusetts, total.....	2, 563, 514	2, 684, 349	3, 072, 665	349, 201	326, 837	263, 839
Boston.....	2, 171, 615	2, 514, 897	2, 214, 400	325, 272	298, 165	258, 160
Fall River.....	353, 323	105, 172	719, 877	23, 364	21, 850	14
Rhode Island, total.....	695, 292	459, 447	316, 817	559	512	234
Providence.....	663, 721	458, 947	316, 817	559	512	234
Connecticut.....	45, 785	79, 881	49, 098	2, 227	3	2
New York, total <sup>1</sup> .....	11, 967, 958	13, 405, 471	13, 441, 749	11, 770, 797	10, 951, 295	11, 434, 523
New York <sup>1</sup> .....	11, 963, 644	13, 392, 216	13, 404, 699	11, 770, 797	10, 949, 743	11, 434, 523
New Jersey.....	175			7, 440	2, 836	27, 464
Delaware, total.....	234, 470	215, 678	342, 996	552	569	11, 565
Claymont.....	163, 744	157, 033	147, 758			
Wilmington.....	68, 726	58, 640	195, 238	552	569	11, 565
Pennsylvania, total.....	3, 362, 243	3, 170, 594	2, 764, 509	2, 494, 249	3, 439, 076	2, 052, 581
Chester.....	120, 231	219, 309	223, 410	6, 221	8, 004	55, 745
Marcus Hook.....				130, 548	95, 258	75, 501
Philadelphia <sup>1</sup> .....	3, 242, 012	2, 951, 285	2, 541, 099	2, 357, 480	3, 335, 814	1, 921, 335
Maryland: Baltimore.....	3, 938, 947	4, 472, 784	4, 452, 413	1, 753, 722	7, 089, 674	1, 922, 194
District of Columbia.....		900				
Virginia, total.....	665, 583	617, 706	606, 059	4, 260, 385	11, 470, 802	2, 760, 125
Newport News.....	201, 622	123, 383	161, 357	1, 824, 394	4, 426, 546	850, 664
Norfolk.....	463, 961	494, 323	444, 702	2, 435, 491	7, 043, 516	1, 909, 461
North Carolina: Wilmington.....	203, 720	196, 285	151, 662	19, 917	22, 699	32, 954
South Carolina, total.....	653, 651	742, 773	653, 795	386, 760	681, 851	357, 821
Charleston.....	653, 651	742, 773	653, 795	386, 760	681, 851	357, 821
Georgia, total.....	593, 435	562, 963	376, 784	385, 448	438, 214	470, 017
Brunswick.....	52, 552	51, 619	56, 298	41, 454	51, 207	50, 877
Savannah.....	540, 883	511, 344	320, 486	344, 994	387, 007	419, 140
Florida, east coast, total.....	630, 397	624, 038	387, 049	289, 453	207, 251	260, 383
Fernandina.....		136	147, 089	117, 089	110, 326	123, 180
Jacksonville.....	436, 930	509, 175	326, 533	133, 065	86, 334	120, 716
Miami.....	193, 127	114, 863	60, 380	8, 358	954	15, 699
<b>Gulf ports, total</b> .....	8, 584, 397	8, 167, 152	6, 072, 996	12, 412, 272	13, 450, 118	13, 909, 796
Florida, west coast, total.....	800, 024	959, 912	401, 216	1, 312, 100	1, 115, 702	1, 358, 782
Boca Grande.....	1, 000	1, 808	1	131, 239	102, 014	84, 106
Key West.....	337, 302	445, 256	147, 867	236, 567	252, 048	269, 760
Pensacola.....	90, 295	96, 440	77, 339	246, 677	229, 377	248, 238
Tampa.....	371, 425	415, 608	176, 009	578, 317	492, 492	725, 673
Alabama: Mobile.....	341, 681	433, 704	346, 188	766, 754	572, 450	647, 047
Mississippi, total.....	42, 910	48, 522	27, 443	342, 101	285, 044	356, 800
Gulfport.....	42, 910	48, 522	27, 443	328, 260	272, 023	348, 940
Louisiana, total.....	5, 136, 346	5, 064, 140	4, 462, 455	4, 955, 349	4, 859, 341	4, 671, 318
Baton Rouge.....	298, 963	168, 465	243, 249	999, 468	963, 337	1, 069, 984
New Orleans.....	4, 830, 037	4, 877, 059	4, 177, 355	3, 799, 464	3, 785, 112	3, 520, 293
Avondale.....				67, 110	31, 603	
Saint Rose.....				65, 509	29, 058	11, 716
Texas, total.....	2, 263, 436	1, 660, 874	835, 696	5, 035, 968	6, 617, 581	6, 875, 849
Beaumont.....	188	2, 084	6, 929	732, 204	945, 992	703, 545
Freeport.....	288, 223	217, 182	54, 236	131, 314	132, 482	233, 639
Galveston.....	775, 209	723, 398	393, 766	1, 080, 074	1, 036, 277	1, 843, 288
Houston.....	433, 538	364, 534	192, 311	1, 467, 922	2, 183, 698	2, 606, 647
Orange.....	6, 927	4, 718	8, 801	77, 112	59, 437	88, 398
Port Arthur.....	496, 335	219, 589	87, 880	932, 730	1, 058, 691	1, 082, 579
Sabine.....				377, 931	91, 042	6, 000
Texas City.....	263, 016	129, 069	86, 427	222, 375	198, 608	219, 579

<sup>1</sup> Includes commerce of New Jersey ports which enters or clears through this customhouse.

No. 491.—CARGO TONNAGE OF WATER-BORNE IMPORTS AND EXPORTS: BY STATES AND INDIVIDUAL PORTS—Continued

State and port	Imports			Exports		
	1925	1926	1927	1925	1926	1927
<b>Pacific ports, total</b> .....	<b>2, 542, 188</b>	<b>2, 693, 134</b>	<b>2, 785, 792</b>	<b>3, 325, 560</b>	<b>11, 384, 564</b>	<b>13, 320, 987</b>
California, total.....	1, 383, 664	1, 481, 968	1, 522, 343	5, 395, 705	6, 759, 865	8, 563, 387
Eureka.....	2, 200			46, 674	52, 056	93, 815
Los Angeles.....	393, 258	451, 832	510, 657	3, 231, 141	4, 435, 046	5, 663, 401
San Diego.....	23, 994	13, 877	30, 058	8, 636	6, 530	5, 381
San Francisco <sup>1</sup> .....	958, 012	1, 015, 927	981, 020	1, 860, 265	2, 097, 250	2, 268, 153
Port San Luis.....		332	8	240, 030	358, 029	465, 874
Oregon total.....	133, 058	126, 247	133, 085	1, 047, 796	1, 909, 297	1, 974, 750
Westport.....				59, 439	52, 544	41, 971
Astoria.....	24, 011	8, 693		69, 443	120, 814	82, 413
Coos Bay <sup>2</sup> .....		2, 169		82, 214	98, 349	93, 527
Portland.....	106, 759	112, 585	125, 729	704, 444	1, 527, 470	1, 644, 285
Washington, total.....	1, 025, 466	1, 084, 919	1, 130, 364	1, 832, 059	2, 515, 402	2, 732, 844
Anacortes.....	110, 304	88, 406	113, 655	50, 427	51, 421	60, 920
Bellingham.....	78, 647	65, 585	85, 585	62, 198	52, 907	98, 678
Everett.....	8, 738	9, 723	15, 622	164, 523	144, 868	136, 519
Grays Harbor <sup>3</sup> .....	1, 072	2, 586	575	406, 474	689, 072	652, 300
Longview.....		203		31, 597	82, 167	90, 832
Olympia.....		80	1, 832	6, 963	64, 301	127, 709
Port Angeles.....	44, 758	142, 618	99, 567	14, 543	19, 471	28, 730
Seattle.....	428, 469	403, 347	454, 984	545, 737	736, 012	804, 399
Tacoma.....	335, 741	359, 470	391, 321	454, 880	528, 092	586, 986
<b>Great Lakes ports, total</b> .....	<b>5, 829, 603</b>	<b>5, 171, 672</b>	<b>5, 317, 674</b>	<b>6, 990, 775</b>	<b>8, 023, 418</b>	<b>9, 922, 342</b>
New York, total.....	4, 672, 945	3, 993, 220	4, 209, 551	1, 759, 806	1, 691, 207	2, 486, 707
Buffalo.....	4, 094, 993	3, 516, 543	3, 081, 624	997, 295	742, 755	1, 587, 467
Fair Haven.....				36, 981	54, 264	7, 718
Ogdensburg.....	200, 514	172, 071	183, 450	26, 951	2, 194	1, 990
Oswego.....	5, 654	2, 723	26, 028	111, 642	93, 184	70, 314
Rochester.....	160, 721	99, 969	140, 066	385, 224	591, 480	675, 534
Sodus Point.....				200, 219	202, 029	126, 925
Tonawanda.....	73, 744	58, 750	37, 242			
Waddington.....	135, 200	137, 000	118, 400			
Pennsylvania, Erie.....	144, 395	208, 368	232, 248	73, 587	113, 660	92, 928
Ohio, total.....	638, 736	453, 774	463, 866	3, 610, 797	4, 225, 154	4, 250, 493
Ashtabula.....				356, 605	466, 391	361, 762
Cleveland.....	277, 214	131, 001	157, 842	149, 192	187, 226	216, 394
Conneaut.....	300			91, 145	117, 031	84, 489
Fairport.....	123, 186	180, 634	137, 454	581, 945	387, 340	231, 805
Lorain.....	13, 150	6, 000	2, 982	174, 874	233, 836	392, 559
Sandusky.....	188, 668	115, 090	102, 087	974, 465	1, 111, 954	1, 099, 975
Toledo.....	36, 218	26, 048	63, 501	1, 282, 571	1, 721, 376	1, 863, 509
Indiana.....	2, 400		23	9, 082	15, 550	15, 020
Illinois Chicago.....	62, 601	79, 891	80, 559	199, 125	321, 227	336, 819
Michigan, total.....	77, 575	253, 525	611, 402	345, 673	528, 303	639, 801
Calumet.....				31, 339	10, 025	
Detroit.....	4, 250	146, 414	459, 404	1, 685	13, 116	125, 436
Escanaba.....	2, 166	1, 360	2, 846	173, 225	292, 406	283, 889
Marquette.....				137, 200	158, 299	115, 500
Wisconsin, total.....	183, 378	132, 126	134, 032	654, 913	820, 180	1, 316, 710
Ashland.....	119, 077	98, 349	143, 734	134, 516	124, 287	98, 762
Milwaukee.....	16, 512	15, 172	12, 689	73, 687	29, 443	49, 056
Superior.....	21, 694	6, 874	1, 340	445, 510	664, 307	1, 158, 197
Minnesota, total.....	47, 573	45, 768	35, 993	337, 792	308, 137	783, 564
Duluth.....	47, 573	45, 768	35, 993	326, 862	308, 137	783, 564

<sup>1</sup> San Francisco, Calif., includes all ports within San Francisco Bay

<sup>2</sup> Coos Bay, Oreg., includes Marshfield and North Bend

<sup>3</sup> Grays Harbor, Wash., includes Aberdeen and Hoquiam

Source: Bureau of Research, United States Shipping Board.

# No. 492.—CARGO TONNAGE OF WATER-BORNE IMPORTS AND EXPORTS: By MAJOR COMMODITIES AND BY COASTAL DISTRICTS

NOTE.—In thousands of cargo tons of 2,240 pounds. Leaders indicate no data or less than 500 tons

Commodity	1924	1925	1926	1927					
				Total	North Atlantic	South Atlantic	Gulf	Pacific	Great Lakes
Imports, total	40,899	43,135	44,686	42,183	25,860	1,576	6,094	2,835	5,818
Wheat	2,359	3,407	3,150	3,475	3	—	—	2	3,470
Other grains	705	699	605	623	63	—	15	79	461
Vegetables	735	796	826	651	502	8	21	129	—
Meat, fish, and dairy products	237	245	279	389	290	2	18	78	1
Bananas	1,170	1,353	1,321	1,531	811	24	679	17	—
Coconuts and copra	205	218	266	294	81	1	45	156	—
Other fruits and nuts	349	415	361	276	202	—	43	31	—
Sugar	3,631	3,929	4,058	3,590	2,379	160	970	81	—
Molasses	903	1,306	1,330	1,195	627	6	543	19	—
Coffee	659	613	667	667	395	9	189	73	—
Cocoa	169	167	187	198	194	—	—	4	—
Tobacco and manufactures	49	51	48	58	52	—	4	2	—
Cotton, raw	80	82	89	93	82	—	—	11	—
Cotton manufactures	92	92	108	98	54	—	22	22	—
Wool, raw	122	146	139	110	96	—	—	14	—
Wool manufactures	46	38	37	34	30	—	—	4	—
Jute	65	68	76	103	99	2	—	2	—
Jute manufactures	306	311	349	319	226	3	58	32	—
Other fibers and grasses	361	469	355	300	143	5	87	21	44
Other fibers and grasses manufactured	92	70	74	127	92	—	4	31	—
Silk manufactures	42	38	38	37	29	—	—	8	—
Paper stock (except wood pulp)	245	292	245	175	153	2	10	10	—
Paper manufactures	357	342	381	445	164	12	73	142	54
Clays	414	392	423	352	336	—	3	9	4
Clay manufactures	211	190	299	293	229	—	7	57	—
Rubber	308	408	434	459	450	—	—	9	—
Coal and coke	272	657	1,109	449	300	—	—	145	4
Petroleum, crude	13,614	11,165	11,138	10,037	7,340	753	1,919	15	10
Iron ore	2,036	2,203	2,697	2,797	2,748	—	34	15	—
Manganese and manganese ore	499	598	675	615	578	—	32	5	—
Iron and steel and manufactures	486	834	1,029	722	422	12	100	182	6
Copper and manufactures	534	460	540	564	318	—	—	246	—
Miscellaneous metals	546	925	710	728	318	—	276	133	1
Hides, skins, and manufactures	179	173	168	206	196	—	—	10	—
Logs and lumber	1,426	1,608	1,693	1,576	903	—	191	385	97
Pulpwood and wood pulp	1,598	1,851	1,791	2,050	1,146	3	2	37	862
Dyeing and tanning material	150	150	182	197	178	—	16	3	—
Sulphur and pyrites	281	333	370	283	247	16	—	20	—
Potash	635	789	781	542	265	164	110	2	1
Nitrates	994	1,242	933	829	314	254	181	63	17
Other fertilizers	77	96	129	136	55	—	31	20	—
Chemicals, n. e. s.	540	568	586	645	274	42	260	66	—
Gypsum	424	506	716	753	692	—	—	61	—
All others	2,714	2,844	3,294	3,192	1,797	67	162	380	786
Exports, total	52,261	49,666	63,140	56,935	18,648	1,126	13,935	13,316	9,910
Wheat	7,267	5,300	6,768	7,610	3,069	—	939	1,232	2,370
Rye	1,015	759	365	1,019	225	—	41	2	751
Corn	356	224	330	295	118	—	133	—	44
Barley	690	1,077	723	1,250	678	—	50	261	261
Other grains	503	817	483	434	168	—	144	51	71
Wheat flour	1,890	1,387	1,395	1,401	757	—	350	294	—
Vegetables	884	932	908	343	272	1	42	27	1
Meat, fish, and dairy products	841	866	789	746	508	6	111	121	—
Fruits and nuts	591	537	694	745	342	1	10	392	—
Sugar, refined and manufactured	251	378	120	167	143	—	12	7	5
Tobacco and manufactures	308	255	272	272	207	3	53	9	—
Cotton, raw	1,566	1,853	2,049	2,125	129	314	1,639	43	—
Cotton manufactures	82	93	85	103	80	19	3	1	—
Wool and manufactures	14	5	9	8	8	—	—	—	—
Hides, skins, and manufactures	66	45	39	29	22	—	1	6	—

**No. 492.—CARGO TONNAGE OF WATER-BORNE IMPORTS AND EXPORTS: BY MAJOR COMMODITIES AND BY COASTAL DISTRICTS—Continued**

Commodity	1924	1925	1926	1927					
				Total	North Atlantic	South Atlantic	Gulf	Pacific	Great Lakes
Exports—Continued.									
Coal and coke.....	9,427	9,092	24,711	8,409	2,927	205	113	18	5,146
Petroleum and products.....	13,759	13,174	14,959	16,512	3,569	9	5,715	7,132	87
Iron ore.....	571	583	813	744	10				794
Iron and steel and manufactures, n. e. s.....	1,305	1,223	1,528	1,552	1,115	9	211	43	174
Machinery, including agricultural.....	431	470	494	492	431	1	35	24	1
Vehicles.....	450	644	578	654	626		10	18	
Copper manufactures.....	454	440	394	443	348	1	4	88	2
Lumber.....	4,560	4,539	4,750	5,430	238	117	1,997	3,068	10
Cement.....	129	150	152	131	123			2	
Sulphur.....	463	612	567	799	7		763	2	27
Phosphates.....	795	869	759	924	44	122	757	1	
Other fertilizers.....	198	208	250	220	168	9	20	23	
Chemicals, n. e. s.....	264	278	348	454	296		98	59	1
Naval stores.....	367	291	290	391	51	264	72	4	
All others.....	2,773	2,564	2,518	3,233	1,969	45	606	388	225

Source. Bureau of Research, United States Shipping Board.

**No. 493.—NET TONNAGE OF VESSELS ENTERED AND CLEARED IN FOREIGN TRADE**

NOTE.—Domestic trade is not included. For definition of net tonnage see general note, p. 429. Figures cover years ended June 30 to and including 1918, calendar years thereafter. Owing to the marked effect of the war on shipping a special average for the 6½ years July 1, 1914, to Dec. 31, 1920, is presented

[In thousands of net tons]

Yearly average or year	Entered		Cleared		Year	Entered		Cleared	
	Sea-ports	Other ports	Sea-ports	Other ports		Sea-ports	Other ports	Sea-ports	Other ports
1840 <sup>1</sup> .....	1,788	501	1,861	492	1897.....	20,003	3,757	19,878	3,831
1850.....	3,169	1,179	3,167	1,194	1898.....	21,700	3,879	21,892	3,856
1860.....	5,000	3,275	5,257	3,533	1899.....	21,963	4,148	22,177	4,089
1870.....	6,270	2,886	6,362	2,807	1900.....	23,534	4,629	23,618	4,663
1871-1875.....	8,462	2,997	8,514	2,994	1901.....	24,791	4,977	24,889	4,931
1876-1880.....	12,134	2,792	12,197	2,807	1902.....	24,361	6,293	24,242	6,202
1881-1885.....	13,604	2,931	13,781	2,917	1903.....	24,698	6,396	24,823	6,493
1886-1890.....	13,479	2,602	13,655	2,593	1904.....	24,111	5,841	24,192	5,824
1891-1895.....	16,801	2,816	16,965	2,876	1905.....	24,793	6,190	25,020	6,138
1896-1900.....	20,931	3,989	21,077	4,007	1906.....	27,401	6,754	26,970	6,814
1901-1905.....	24,551	5,939	24,633	5,918	1907.....	29,248	7,374	28,499	7,491
1906-1910.....	29,651	8,071	29,156	8,036	1908.....	30,444	8,095	30,198	8,084
1911-1915.....	36,035	11,879	35,954	12,061	1909.....	30,243	8,815	29,604	8,592
1915-1920 <sup>2</sup> .....	38,071	13,440	40,137	13,511	1910.....	30,917	9,319	30,510	9,196
1921-1925.....	52,959	13,334	53,578	13,075	1911.....	32,457	10,218	32,299	10,138
1910-1914.....	35,212	11,408	34,965	11,614	1912.....	34,669	11,499	34,706	11,711
1914-1920 <sup>3</sup> .....	37,604	13,169	39,417	13,190	1913.....	37,973	12,666	37,566	13,586
1881.....	15,631	2,688	15,794	2,676	1914.....	40,052	13,337	39,743	13,440
1882.....	14,635	2,945	14,846	2,911	1915.....	35,032	11,678	35,458	11,427
1883.....	13,261	3,021	13,565	2,976	1916.....	37,744	13,806	38,946	13,477
1884.....	12,085	2,984	12,208	2,990	1917.....	36,521	13,951	38,094	13,983
1885.....	12,287	3,018	12,496	3,019	1918.....	31,101	14,356	31,869	14,145
1886.....	12,230	2,906	12,413	2,915	1918 (July-Dec.).....	16,113	8,616	16,112	9,360
1887.....	13,532	2,284	13,511	2,242	1919.....	36,381	10,320	40,750	10,506
1888.....	12,956	2,437	13,252	2,417	1920.....	51,532	12,572	54,981	12,837
1889.....	13,312	2,640	13,672	2,671	1921.....	49,958	12,327	50,423	12,242
1890.....	15,366	2,741	15,429	2,720	1922.....	51,701	13,490	51,799	13,040
1891.....	15,394	2,810	15,411	2,850	1923.....	52,775	13,544	53,215	13,409
1892.....	18,180	2,833	18,258	2,903	1924.....	54,726	13,565	55,294	13,616
1893.....	16,679	2,903	16,825	2,936	1925.....	55,636	13,742	57,160	13,069
1894.....	17,025	2,965	17,306	2,966	1926.....	63,759	13,174	65,883	13,458
1895.....	16,725	2,870	17,024	2,727	1927.....	58,921	15,389	59,759	15,682
1896.....	17,453	3,586	17,819	3,595	1928.....	62,809	17,402	63,331	17,336

<sup>1</sup> Year ended Sept 30

<sup>2</sup> Average for period July 1, 1914, to Dec. 31, 1920.

<sup>3</sup> Average for period July 1, 1915 to Dec 31, 1920.

Source. Bureau of Foreign and Domestic Commerce.

**No. 494.—NET TONNAGE OF VESSELS ENTERED AND CLEARED IN FOREIGN TRADE: BY CUSTOMS DISTRICTS AND BY REGIONS**

Note.—In thousands of nettons. See headnote, Table 493

Customs district	1925		1926		1927		1928	
	Entered	Cleared	Entered	Cleared	Entered	Cleared	Entered	Cleared
<b>Grand total.....</b>	<b>69,373</b>	<b>70,229</b>	<b>76,983</b>	<b>79,041</b>	<b>74,310</b>	<b>75,440</b>	<b>80,211</b>	<b>80,667</b>
<b>Seaports, total.....</b>	<b>55,638</b>	<b>57,160</b>	<b>63,759</b>	<b>65,583</b>	<b>58,921</b>	<b>59,759</b>	<b>62,809</b>	<b>63,331</b>
<b>North Atlantic coast, total.....</b>	<b>26,920</b>	<b>26,166</b>	<b>28,517</b>	<b>28,296</b>	<b>28,345</b>	<b>26,532</b>	<b>31,071</b>	<b>29,048</b>
Maine and New Hampshire.....	695	750	699	676	677	599	623	520
Massachusetts.....	3,896	2,453	3,783	2,551	4,397	2,884	4,257	2,846
Rhode Island.....	417	367	289	255	240	200	237	236
Connecticut.....	31	21	37	13	20	17	25	6
New York.....	19,210	20,835	20,575	20,427	20,558	21,327	22,873	23,607
Philadelphia.....	2,671	1,740	3,134	2,354	2,444	1,505	3,053	1,833
<b>South Atlantic coast, total.....</b>	<b>5,044</b>	<b>6,925</b>	<b>10,413</b>	<b>12,685</b>	<b>4,896</b>	<b>6,642</b>	<b>4,607</b>	<b>6,070</b>
Maryland.....	1,915	1,478	4,132	3,767	2,032	1,483	1,909	1,380
Virginia.....	1,812	3,507	4,355	6,900	887	2,722	551	2,383
North Carolina.....	109	63	95	77	65	46	170	74
South Carolina.....	455	445	551	524	482	408	416	343
Georgia.....	404	578	353	640	286	760	304	584
Porto Rico.....	849	854	927	977	1,124	1,218	1,257	1,306
<b>Gulf coast, total.....</b>	<b>12,047</b>	<b>13,140</b>	<b>11,875</b>	<b>12,467</b>	<b>11,612</b>	<b>11,904</b>	<b>11,629</b>	<b>12,437</b>
Florida.....	2,721	2,231	2,630	2,225	2,649	2,158	2,476	2,044
Mobile.....	566	921	614	894	689	914	659	852
New Orleans.....	5,372	5,047	5,421	4,843	5,189	4,535	5,119	4,695
Sabine.....	1,059	1,119	837	1,094	675	1,005	705	963
Galveston.....	2,329	2,822	2,373	3,410	2,410	3,292	2,610	3,883
<b>Mexican border San Antonio.....</b>			<b>4</b>		<b>101</b>	<b>29</b>	<b>210</b>	<b>61</b>
<b>Pacific coast, total.....</b>	<b>11,625</b>	<b>11,929</b>	<b>12,950</b>	<b>13,995</b>	<b>13,967</b>	<b>14,652</b>	<b>15,292</b>	<b>15,715</b>
Washington.....	5,362	5,621	5,536	6,031	5,430	5,574	6,273	6,278
Oregon.....	617	572	899	920	960	910	927	976
San Francisco.....	1,721	1,912	1,759	2,125	1,811	2,365	1,996	2,457
Los Angeles.....	2,814	2,482	3,623	3,464	4,556	4,375	4,792	4,573
Alaska.....	333	303	320	241	333	255	362	267
Hawaii.....	778	1,039	813	1,214	877	1,173	942	1,164
<b>Northern border, total.....</b>	<b>13,742</b>	<b>13,069</b>	<b>13,174</b>	<b>13,458</b>	<b>15,389</b>	<b>15,681</b>	<b>17,402</b>	<b>17,336</b>
Vermont.....	7	9	5	7	4	7	5	6
St. Lawrence.....	1,247	905	1,144	847	1,773	828	1,239	872
Rochester.....	2,416	2,411	2,401	2,475	2,675	2,727	3,372	3,422
Buffalo.....	3,635	1,424	3,087	1,407	3,534	2,147	4,122	2,060
Ohio.....	3,429	4,311	3,472	4,655	3,781	4,745	4,179	5,430
Michigan.....	1,744	1,866	1,472	1,617	2,146	2,179	2,053	2,600
Chicago.....	273	368	203	512	199	508	228	490
Wisconsin.....	58	435	237	374	477	538	410	430
Duluth and Superior.....	935	1,310	1,150	1,264	1,400	2,062	1,794	2,026

  

Yearly average or year	Atlantic coast		Gulf coast		Pacific coast		Mexican border, total	Northern border	
	Total	With cargo	Total	With cargo	Total	With cargo		Total	With cargo
<b>Entrances</b>									
1901-1905.....	17,427	15,149	4,056	1,770	3,068	2,286	-----	5,939	2,602
1906-1910.....	20,921	18,494	5,159	2,420	3,570	2,707	-----	8,072	3,207
1911-1915.....	24,293	20,708	6,635	3,377	5,055	3,649	52	11,879	4,564
1915-1920 <sup>1</sup> .....	24,581	16,094	7,939	4,646	5,487	4,329	64	13,440	5,646
1921-1925.....	30,979	27,133	12,390	8,243	9,562	6,070	28	13,334	6,435
1924.....	30,515	27,222	12,947	8,659	11,259	6,522	5	13,565	6,476
1925.....	31,964	28,681	12,047	8,085	11,625	6,684	-----	13,742	7,323
1926.....	38,930	30,029	11,875	8,082	12,950	7,000	4	13,174	7,131
1927.....	33,174	26,303	11,904	10,410	14,652	12,678	29	15,682	10,656
1928.....	35,673	33,438	11,629	7,020	15,292	8,249	210	17,402	8,571
<b>Clearances<sup>2</sup></b>									
1901-1905.....	17,077	15,714	4,499	4,328	3,057	2,418	-----	5,918	3,825
1906-1910.....	20,162	18,650	5,477	5,187	3,517	2,922	-----	8,036	5,673
1911-1915.....	23,608	21,765	7,193	6,414	5,104	4,643	50	12,060	8,567
1915-1920 <sup>1</sup> .....	25,921	23,168	8,528	6,915	5,626	4,762	62	13,511	9,637
1921-1925.....	30,837	24,284	12,833	9,589	9,880	8,360	28	13,075	9,236
1924.....	31,016	24,282	12,713	9,758	11,563	9,746	2	13,616	9,933
1925.....	33,091	26,457	12,140	9,665	11,929	9,628	-----	13,069	8,505
1926.....	39,121	32,537	12,467	10,103	13,995	11,597	-----	13,458	9,241
1927.....	33,241	30,514	11,612	7,337	13,967	7,580	101	15,389	7,824
1928.....	35,118	27,438	12,437	10,579	15,715	13,184	61	17,336	11,898

<sup>1</sup> July 1, 1915, to Dec 31, 1920

Source. Bureau of Foreign and Domestic Commerce.

## No. 495.—NET TONNAGE OF VESSELS ENTERED IN FOREIGN TRADE: By CLASSES

[All figures except number of vessels and percentages in thousands of net tons. See headnote, Table 493]

Yearly average or year	Number of vessels, all ports	All ports				Seaports				
		Total	American	Foreign	Per cent American	All vessels	Sailing vessels	Steam vessels	With cargo	In ballast
1881-1890	32, 038	16, 308	3, 305	12, 913	20.7	13, 542	5, 251	8, 291	11, 560	1, 982
1891-1900	31, 781	22, 269	4, 978	17, 291	22.4	18, 866	3, 816	15, 050	14, 184	4, 682
1901-1905	31, 040	30, 490	6, 802	23, 688	22.3	24, 551	2, 606	21, 945	19, 205	5, 346
1906-1910	34, 375	37, 722	8, 372	29, 350	22.2	29, 650	1, 816	27, 834	23, 621	6, 029
1911-1915	38, 951	47, 914	12, 205	35, 709	25.5	36, 035	1, 574	34, 461	27, 778	8, 257
1915-1920 <sup>1</sup>	42, 713	51, 511	21, 999	29, 512	42.7	38, 071	1, 899	36, 173	25, 128	12, 943
1921-1925	41, 546	66, 293	29, 645	36, 648	44.7	52, 959	1, 004	51, 955	41, 471	11, 488
1910-1914	38, 038	46, 619	11, 328	35, 291	24.3	35, 212	1, 558	33, 654	28, 096	7, 116
1914-1920 <sup>2</sup>	42, 257	50, 773	20, 657	30, 116	40.7	37, 604	1, 853	35, 750	24, 938	12, 666
1913	41, 015	50, 639	13, 072	37, 567	25.8	37, 973	1, 734	36, 239	29, 127	8, 846
1915	39, 754	46, 710	13, 275	33, 435	28.4	35, 032	1, 605	33, 427	23, 893	11, 139
1916	42, 514	51, 550	17, 928	33, 622	34.8	37, 744	2, 137	35, 607	24, 253	13, 491
1917	45, 172	50, 472	18, 725	31, 747	37.1	36, 521	2, 123	34, 398	23, 726	12, 795
1918	40, 512	45, 456	19, 284	26, 172	42.4	31, 101	1, 789	29, 312	21, 147	9, 954
1918 (July-Dec.)	23, 032	25, 029	11, 006	14, 023	44.0	16, 113	932	15, 181	9, 649	6, 464
1919	39, 052	46, 702	21, 933	24, 769	47.0	36, 381	1, 614	34, 767	24, 041	12, 340
1920	45, 637	64, 104	32, 119	31, 985	50.1	51, 531	1, 847	49, 684	35, 387	16, 144
1921	40, 758	62, 285	31, 185	31, 100	50.1	49, 558	1, 379	48, 179	36, 066	13, 892
1922	40, 926	65, 191	31, 738	33, 453	48.7	51, 701	1, 104	50, 597	43, 219	8, 482
1923	41, 591	66, 319	27, 725	38, 594	41.8	52, 775	958	51, 817	42, 219	10, 556
1924	42, 435	68, 292	29, 628	38, 664	43.4	54, 726	849	53, 877	42, 403	12, 323
1925	42, 019	69, 378	27, 947	41, 431	40.3	55, 636	731	54, 905	43, 450	12, 186
1926	44, 757	76, 933	26, 890	50, 043	35.0	63, 759	549	63, 210	45, 113	18, 646
1927	45, 459	74, 310	29, 289	45, 021	39.4	58, 921	530	58, 391	45, 462	13, 458
1928	48, 252	80, 211	31, 285	48, 926	39.0	62, 809	453	62, 356	48, 757	14, 052

Yearly average or year	Seaports—Continued					Northern border ports			
	American vessels		Foreign vessels		Per cent American	Total	With cargo	American	Foreign
	Total	With cargo	Total	With cargo					
1881-1890	2, 933	2, 559	10, 609	9, 001	21.7	2, 766	1, 976	462	2, 304
1891-1900	3, 619	2, 956	15, 247	11, 228	19.2	3, 403	1, 589	1, 359	2, 044
1901-1905	3, 962	3, 246	20, 589	15, 960	16.1	5, 939	2, 602	2, 840	3, 099
1906-1910	4, 175	3, 471	25, 475	20, 150	14.1	8, 072	3, 207	4, 197	3, 875
1911-1915	5, 276	4, 200	30, 759	23, 578	14.6	11, 879	4, 564	6, 929	4, 950
1915-1920 <sup>1</sup>	14, 508	11, 375	23, 563	13, 753	38.1	12, 440	5, 646	7, 490	5, 950
1921-1925	22, 526	18, 404	30, 433	23, 068	42.5	13, 334	6, 455	7, 119	6, 215
1910-1914	4, 753	3, 787	30, 459	24, 309	13.5	11, 407	4, 501	6, 575	4, 832
1914-1920 <sup>2</sup>	13, 327	10, 481	24, 276	14, 456	35.4	13, 169	5, 430	7, 330	5, 840
1913	5, 241	3, 954	32, 732	25, 173	13.8	12, 666	4, 796	7, 831	4, 835
1915	6, 830	5, 567	28, 202	18, 326	19.5	11, 678	4, 241	6, 445	5, 233
1916	9, 446	7, 773	28, 298	16, 480	25.0	13, 806	6, 539	8, 482	5, 324
1917	10, 898	8, 942	25, 623	14, 784	29.8	13, 951	6, 796	7, 827	6, 124
1918	11, 256	9, 136	19, 845	12, 011	36.2	14, 355	5, 400	8, 027	6, 328
1918 (July-Dec.)	5, 747	4, 595	10, 366	5, 054	35.7	8, 916	2, 704	5, 259	3, 657
1919	16, 224	12, 294	20, 157	11, 747	44.6	10, 321	3, 763	5, 709	4, 612
1920	26, 225	19, 822	25, 306	15, 565	50.9	12, 573	5, 852	5, 894	6, 679
1921	24, 402	18, 620	25, 556	17, 446	48.8	12, 327	5, 672	6, 783	5, 544
1922	23, 633	20, 308	28, 068	22, 911	45.7	13, 490	6, 178	8, 105	5, 385
1923	20, 984	17, 790	31, 791	24, 429	39.8	13, 544	6, 766	6, 741	6, 803
1924	22, 462	18, 267	32, 264	24, 136	41.0	13, 565	6, 325	7, 166	6, 399
1925	21, 148	17, 033	34, 487	26, 417	38.0	13, 742	7, 323	6, 798	6, 944
1926	21, 091	17, 103	42, 068	28, 010	33.1	13, 174	7, 181	5, 799	7, 375
1927	22, 001	17, 668	36, 920	27, 794	37.3	15, 389	7, 824	7, 288	8, 101
1928	22, 991	18, 404	39, 818	30, 353	36.6	17, 402	8, 571	8, 294	9, 108

<sup>1</sup> Average for period July 1, 1915, to Dec. 31, 1920.    <sup>2</sup> Average for period July 1, 1914, to Dec. 31, 1920.

Source: Bureau of Foreign and Domestic Commerce.

No. 496.—NET TONNAGE OF VESSELS CLEARED IN FOREIGN TRADE: BY CLASSES

[All figures except number of vessels and percentages in thousands of net tons. See headnote, Table 493]

Yearly average or year	Number of vessels, all ports	All ports				Seaports				
		Total	American	Foreign	Percent American	All vessels	Sailing vessels	Steam vessels	With cargo	In ballast
1881-1890.....	32, 159	16, 473	3, 450	13, 023	20 9	13, 719	5, 363	8, 356	12, 795	924
1891-1900.....	31, 002	22, 463	5, 038	17, 425	22 4	19, 021	3, 818	15, 203	17, 514	1, 507
1901-1905.....	33, 863	30, 551	6, 832	23, 739	22 3	24, 033	2, 621	22, 012	22, 400	2, 173
1906-1910.....	33, 897	37, 192	8, 252	28, 910	22 3	29, 156	1, 850	27, 306	26, 768	2, 388
1911-1915.....	38, 790	48, 015	12, 512	35, 503	26 1	35, 935	1, 654	34, 301	32, 827	3, 128
1915-1920 <sup>1</sup> .....	42, 687	53, 647	23, 005	30, 643	42 9	40, 137	2, 057	38, 080	34, 851	5, 285
1921-1925.....	40, 120	66, 653	29, 554	37, 099	44 3	53, 578	984	52, 594	42, 233	11, 345
1910-1914.....	37, 883	46, 579	11, 590	34, 989	24 9	34, 965	1, 620	33, 345	32, 024	2, 941
1914-1920 <sup>2</sup> .....	42, 141	52, 607	21, 529	31, 078	40 9	39, 417	2, 010	37, 407	34, 394	5, 023
1913.....	43, 094	51, 152	13, 946	37, 206	27 3	37, 566	1, 824	35, 742	34, 310	3, 253
1915.....	39, 139	46, 885	13, 418	33, 467	28 6	35, 438	1, 749	33, 709	31, 878	3, 580
1916.....	42, 136	52, 422	17, 902	34, 521	34 1	38, 945	2, 310	36, 635	35, 203	3, 742
1917.....	43, 749	52, 077	19, 146	32, 931	36 8	38, 094	2, 239	35, 855	34, 383	3, 711
1918.....	39, 893	46, 014	19, 206	26, 808	41 7	31, 869	1, 925	29, 944	28, 125	3, 744
1918 (July-Dec.).....	22, 580	25, 472	11, 223	14, 249	44 1	16, 112	1, 011	15, 101	13, 594	2, 518
1919.....	39, 974	51, 257	24, 992	26, 265	48 8	40, 751	1, 819	38, 932	34, 689	6, 062
1920.....	46, 447	67, 817	34, 053	33, 764	50 2	54, 980	2, 009	52, 971	45, 687	9, 293
1921.....	39, 553	62, 665	30, 181	32, 484	48 2	50, 423	1, 218	49, 205	39, 985	10, 438
1922.....	39, 314	64, 839	31, 759	33, 080	49 0	51, 799	1, 109	50, 690	39, 244	12, 555
1923.....	40, 256	66, 624	27, 932	38, 692	41 9	53, 215	1, 035	52, 180	42, 398	10, 817
1924.....	41, 100	68, 910	30, 092	38, 818	43 7	55, 294	810	54, 483	43, 787	11, 506
1925.....	40, 379	70, 229	27, 808	42, 421	39 6	57, 100	746	56, 414	45, 750	11, 410
1926.....	42, 951	79, 041	28, 532	50, 509	36 1	65, 583	566	65, 017	54, 237	11, 346
1927.....	43, 619	75, 440	29, 793	45, 647	39 5	59, 759	526	59, 233	49, 419	10, 340
1928.....	46, 201	80, 667	31, 734	48, 933	39 3	63, 331	436	62, 895	51, 609	11, 722

  

Yearly average or year	Seaports—Continued					Northern border ports			
	American vessels		Foreign vessels		Percent American	Total	With cargo	American	Foreign
	Total	With cargo	Total	With cargo					
1881-1890.....	2, 978	2, 541	10, 741	10, 254	21.7	2, 754	1, 778	472	2, 282
1891-1900.....	3, 644	2, 914	15, 377	14, 600	19.2	3, 442	2, 129	1, 394	2, 048
1901-1905.....	4, 000	3, 284	20, 633	19, 176	16 2	5, 918	3, 825	2, 812	3, 106
1906-1910.....	4, 084	3, 498	25, 072	23, 270	14 0	8, 036	5, 673	4, 198	3, 938
1911-1915.....	5, 361	4, 522	30, 594	28, 305	14 9	12, 060	8, 507	7, 161	4, 909
1915-1920 <sup>1</sup> .....	15, 455	11, 505	24, 681	23, 346	38 5	13, 511	9, 637	7, 550	5, 962
1921-1925.....	22, 556	14, 977	31, 022	28, 057	42 1	13, 075	9, 236	6, 998	6, 077
1910-1914.....	4, 778	4, 109	30, 187	27, 915	13.7	11, 614	8, 380	6, 812	4, 802
1914-1920 <sup>2</sup> .....	14, 171	10, 611	25, 245	23, 783	36.0	13, 190	9, 279	7, 358	5, 832
1913.....	5, 289	4, 517	32, 277	29, 793	14.1	13, 586	10, 173	8, 657	4, 929
1915.....	7, 110	5, 692	28, 348	26, 186	20.1	11, 427	7, 309	6, 308	5, 119
1916.....	9, 763	7, 720	29, 182	27, 483	25.1	13, 478	8, 645	8, 130	5, 339
1917.....	11, 339	8, 805	26, 755	25, 578	29.8	13, 983	9, 745	7, 807	6, 176
1918.....	11, 280	8, 491	20, 589	19, 634	35 4	14, 145	10, 200	7, 926	6, 219
1918 (July-Dec.).....	5, 614	3, 537	10, 498	10, 057	34.8	9, 360	7, 433	5, 609	3, 751
1919.....	19, 133	14, 539	21, 617	20, 150	47 0	10, 560	7, 618	5, 858	4, 648
1920.....	27, 875	20, 188	27, 106	25, 499	50.7	12, 837	9, 365	6, 179	6, 658
1921.....	23, 432	15, 215	26, 991	24, 770	46.5	12, 242	8, 692	6, 749	5, 493
1922.....	23, 755	14, 743	28, 044	24, 501	45.9	13, 040	9, 234	8, 004	5, 036
1923.....	21, 305	14, 584	31, 910	27, 814	40.0	13, 409	9, 514	6, 627	6, 782
1924.....	22, 896	15, 397	32, 397	32, 398	41 4	13, 616	9, 933	7, 195	6, 421
1925.....	21, 394	14, 948	35, 766	30, 802	37.4	13, 618	8, 805	6, 414	6, 654
1926.....	22, 234	15, 838	43, 349	38, 399	33.9	13, 458	9, 241	6, 298	7, 160
1927.....	22, 078	16, 524	37, 681	32, 895	36 9	15, 632	10, 656	7, 716	7, 966
1928.....	23, 180	16, 969	40, 161	34, 640	36 6	17, 336	11, 898	8, 554	8, 782

<sup>1</sup> Average for period July 1, 1915, to Dec. 31, 1920.    <sup>2</sup> Average for period July 1, 1914, to Dec. 31, 1920.

Source: Bureau of Foreign and Domestic Commerce.



# No. 497.—NET TONNAGE OF VESSELS ENTERED AND CLEARED AT SEA-PORTS IN FOREIGN TRADE: BY COUNTRIES OF ORIGIN AND DESTINATION

NOTE.—In thousands of net tons. Only traffic by sea is included. First two columns cover years ended June 30, third column the period July 1, 1914, to Dec 31, 1920, the others calendar years. For definition of net tonnage see general note, p. 429.

Country	1900-1909, average	1910-1914, average	1914-1920, average	1921-1925, average	1925	1926	1927	1928
Total by sea:								
Entered.....	26,382	35,212	37,604	52,959	55,636	63,759	58,921	62,809
Cleared.....	26,206	34,965	39,417	53,578	57,160	65,583	59,759	63,331
Belgium:								
Entered.....	905	955	392	1,231	1,428	1,865	1,600	1,535
Cleared.....	901	1,039	452	1,190	1,249	1,157	1,358	1,254
Denmark:								
Entered.....	184	297	373	372	350	424	437	589
Cleared.....	352	305	498	450	582	615	623	728
France:								
Entered.....	611	1,047	2,251	1,953	1,980	2,385	2,266	2,375
Cleared.....	1,082	1,453	3,345	2,250	2,245	2,399	2,390	2,554
Germany:								
Entered.....	2,384	3,113	290	2,998	3,261	3,370	3,489	3,920
Cleared.....	2,773	3,474	298	3,165	3,384	3,150	3,597	3,446
Italy:								
Entered.....	1,097	1,305	2,171	1,707	1,846	2,083	1,915	2,177
Cleared.....	1,003	1,662	2,489	1,986	1,947	2,369	1,836	1,890
Netherlands:								
Entered.....	846	1,169	1,291	1,654	1,670	2,957	1,904	1,978
Cleared.....	1,206	1,521	1,459	1,464	1,344	1,496	1,612	1,672
Norway:								
Entered.....		193	521	384	389	349	354	275
Cleared.....		159	830	412	345	422	356	328
Spain:								
Entered.....	483	724	838	608	649	869	672	823
Cleared.....	285	337	490	463	454	504	618	617
Sweden:								
Entered.....		68	240	504	501	578	679	651
Cleared.....		66	440	353	336	436	491	516
United Kingdom:								
Entered.....	7,440	7,238	8,765	9,378	9,716	13,088	10,417	10,432
Cleared.....	7,163	7,162	8,164	8,647	9,733	14,575	9,705	9,648
Canada:								
Atlantic coast—								
Entered.....	1,355	1,479	1,092	1,201	1,344	1,309	1,452	1,661
Cleared.....	1,454	1,594	1,007	1,331	1,511	1,479	1,573	1,759
British Columbia—								
Entered.....	1,508	2,539	3,117	4,571	5,875	5,711	5,687	6,574
Cleared.....	1,509	2,589	3,094	4,573	6,045	6,121	5,805	6,546
Central America:								
Entered.....	799	1,879	1,535	1,734	1,970	2,031	2,410	2,454
Cleared.....	830	2,121	1,610	1,640	2,005	2,159	2,553	2,725
Mexico:								
Entered.....	856	1,789	3,788	8,160	5,783	4,759	3,349	2,165
Cleared.....	745	1,847	3,727	8,391	5,962	4,905	3,145	2,185
British West Indies and British Honduras:								
Entered.....	1,001	1,038	564	1,351	1,762	1,607	1,829	1,864
Cleared.....	982	1,181	642	1,435	1,884	1,881	2,038	2,027
Cuba:								
Entered.....	2,018	3,030	3,450	4,769	5,308	5,615	5,476	5,430
Cleared.....	1,766	2,449	3,560	4,669	5,553	5,610	5,806	5,277
Dominican Republic:								
Entered.....	111	179	345	380	451	517	616	771
Cleared.....	94	200	404	449	609	687	791	1,047
Haiti:								
Entered.....	106	123	108	105	147	175	183	224
Cleared.....	81	124	186	230	209	195	181	181
Argentina:								
Entered.....	207	792	633	1,006	855	1,224	1,161	763
Cleared.....	328	619	762	707	797	1,140	998	1,004
Brazil:								
Entered.....	587	1,131	550	552	940	631	681	1,060
Cleared.....	253	558	841	913	1,031	1,568	1,194	1,208
Chile:								
Entered.....	206	462	853	975	1,382	1,307	1,190	1,438
Cleared.....	138	327	797	793	1,056	896	1,006	1,221
Colombia:								
Entered.....	195	199	231	144	138	511	792	1,064
Cleared.....	172	196	213	226	166	479	1,007	1,249
British East Indies:								
Entered.....	238	329	347	576	729	782	808	773
Cleared.....	107	131	204	330	340	392	462	379

No. 497 —NET TONNAGE OF VESSELS ENTERED AND CLEARED AT SEAPORTS IN FOREIGN TRADE. BY COUNTRIES OF ORIGIN AND DESTINATION—Contd

Country	1900- 1909, average	1910- 1914, average	1914- 1920, average	1921- 1925, average	1925	1926	1927	1928
China, Hong Kong, and Kwantung								
Entered.....	346	442	519	959	778	1,010	876	1,028
Cleared.....	359	391	479	963	502	898	846	1,034
Japan:								
Entered.....	441	646	733	1,607	1,612	2,149	2,264	2,496
Cleared.....	351	542	796	2,106	2,142	2,901	2,958	3,438
Philippine Islands								
Entered.....	63	85	132	408	576	634	584	530
Cleared.....	93	144	124	379	535	490	484	537
British Australasia								
Entered.....	256	238	379	569	617	823	866	930
Cleared.....	413	534	567	946	1,230	1,435	1,518	1,385
All other countries								
Entered.....	2,117	2,725	2,094	3,165	3,571	4,980	4,966	6,820
Cleared.....	1,788	2,240	1,938	3,149	3,623	5,216	5,301	7,476

No. 498 —NET TONNAGE OF VESSELS ENTERED AND CLEARED AT SEAPORTS IN FOREIGN TRADE BY NATIONALITY OF VESSEL

NOTE —In thousands of net tons Only traffic by sea and to and from foreign countries is included. The large trade with Canada on the Great Lakes and the St. Lawrence is handled about equally by vessels of the United States and of the British (Canadian) flag See Tables 495 and 496 in which the columns for northern border represent the trade with Quebec and Ontario See note, Table 497

	1900- 1909, average	1910- 1914, average	1914- 1920, average	1921- 1925, average	1925	1926	1927	1928
Total by sea								
Entered.....	26,362	35,212	37,604	52,959	55,636	63,759	58,921	62,809
Cleared.....	26,296	34,965	39,417	53,578	57,160	65,583	59,759	63,331
American								
Entered.....	4,044	4,753	13,327	22,526	21,149	21,012	22,001	22,991
Cleared.....	4,023	4,778	14,171	22,556	21,394	22,234	22,078	23,180
Total foreign								
Entered.....	22,318	30,459	24,276	30,433	34,487	42,663	36,920	39,818
Cleared.....	22,182	30,186	25,245	31,022	35,766	43,349	37,681	40,151
Belgian								
Entered.....	262	412	269	332	375	483	353	367
Cleared.....	269	404	283	343	380	464	351	342
British								
Entered.....	13,564	17,901	14,168	16,807	18,569	22,834	18,820	19,435
Cleared.....	13,422	17,814	14,755	17,064	19,314	23,010	19,065	19,559
Danish								
Entered.....	398	472	774	929	1,166	1,155	1,098	1,185
Cleared.....	398	450	795	928	1,165	1,175	1,106	1,238
Dutch								
Entered.....	667	1,004	1,007	1,300	1,368	1,754	1,648	1,735
Cleared.....	661	1,007	1,055	1,292	1,376	1,748	1,650	1,759
French								
Entered.....	636	997	876	1,492	1,604	1,744	1,768	1,905
Cleared.....	642	960	919	1,518	1,663	1,783	1,819	1,943
German								
Entered.....	3,160	4,362	107	847	1,299	1,809	2,109	2,676
Cleared.....	3,171	4,300	79	870	1,440	1,885	2,185	2,713
Italian								
Entered.....	542	821	1,211	1,490	1,910	2,759	1,979	2,081
Cleared.....	538	850	1,366	1,569	1,978	2,796	2,026	1,973
Japanese								
Entered.....	127	353	1,099	2,059	2,266	2,285	2,439	2,750
Cleared.....	107	244	1,046	2,235	2,468	2,531	2,602	2,831
Norwegian								
Entered.....	1,941	2,679	2,744	2,817	3,249	3,872	3,482	4,143
Cleared.....	1,946	2,684	2,822	2,784	3,286	3,979	3,517	4,224
Spanish								
Entered.....	424	413	606	480	425	880	486	467
Cleared.....	420	398	637	487	415	881	521	484
Swedish								
Entered.....	62	70	353	564	653	888	900	945
Cleared.....	65	70	367	566	636	907	936	977
All other foreign								
Entered.....	535	975	1,062	1,317	1,602	2,205	1,838	2,129
Cleared.....	542	977	1,123	1,366	1,675	2,221	1,873	2,108

Source of Tables 497 and 498 Bureau of Foreign and Domestic Commerce.

# No. 499.—EXPORTS (INCLUDING REEXPORTS) AND IMPORTS OF MER- CHANDISE: VALUE, BY METHOD OF CARRIAGE

NOTE.—All figures except percentages expressed in millions of dollars Figures cover fiscal years ended Sept. 30, 1830 and 1840, and June 30, 1850 to 1915, calendar years thereafter

Yearly average or year	Exports (including reexports)					Imports					Water borne—per cent in American vessels	
	Total	Total by water	In American vessels	In foreign vessels	By land vehicles <sup>1</sup>	Total	Total by water	In American vessels	In foreign vessels	By land vehicles <sup>1</sup>	Ex-ports	Im-ports
1830 <sup>2</sup> -----	74	74	64	10	( <sup>3</sup> )	71	71	66	5	( <sup>3</sup> )	86 6	93 1
1840 <sup>2</sup> -----	132	132	106	27	( <sup>3</sup> )	107	107	93	14	( <sup>3</sup> )	80 0	87 6
1850 <sup>2</sup> -----	152	152	100	52	( <sup>3</sup> )	178	178	140	39	( <sup>3</sup> )	65 5	78 4
1860 <sup>2</sup> -----	400	400	279	121	( <sup>3</sup> )	362	362	228	134	( <sup>3</sup> )	70 0	63 0
1870 <sup>2</sup> -----	451	451	170	281	( <sup>3</sup> )	462	462	153	309	( <sup>3</sup> )	37 7	33 1
1871-1875 <sup>4</sup> ---	586	578	157	422	8	599	584	170	414	16	27 1	35 1
1876-1880 <sup>4</sup> ---	711	704	142	562	7	514	501	147	354	13	20 2	29 3
1881-1885-----	792	773	100	673	19	667	646	130	517	21	12 9	20 1
1886-1890-----	738	714	76	638	25	717	685	122	563	33	10 6	17 8
1891-1895-----	892	851	73	778	42	785	748	125	623	38	8 6	16 7
1896-1900-----	1,157	1,079	78	1,001	79	742	706	101	604	36	7 2	14 4
1901-1905-----	1,454	1,316	97	1,218	138	972	909	122	787	63	7 4	13 6
1906-1910-----	1,779	1,576	128	1,448	203	1,346	1,262	159	1,108	83	8 1	12 6
1911-1915-----	2,371	2,049	187	1,862	322	1,712	1,590	198	1,392	123	9 1	12 5
1915-1920 <sup>4</sup> ---	6,515	5,712	1,556	4,156	803	3,358	2,961	978	1,984	397	27 2	33 0
1921-1925-----	4,307	3,788	1,405	2,383	609	3,450	3,013	3,978	2,035	5,437	37.1	32 5
1916-----	5,153	4,820	665	4,155	663	2,392	2,157	532	1,625	234	13 8	24 7
1917-----	6,234	5,403	946	4,457	830	2,953	2,590	733	1,857	862	17 5	28 3
1918-----	6,149	5,226	956	4,240	925	3,031	2,577	717	1,860	454	18 9	27 8
1919-----	7,920	7,050	2,596	4,454	831	3,904	3,414	1,228	2,186	401	36 6	36 0
1920-----	8,228	7,252	3,165	4,087	976	5,279	4,731	1,988	2,743	548	43 6	42 0
1921-----	4,485	3,888	1,402	2,486	597	2,509	2,187	765	1,422	1,322	36 1	35 0
1922-----	3,832	3,281	1,261	2,020	551	3,113	2,704	921	1,783	409	38 4	34 1
1923-----	4,168	3,639	1,358	2,181	629	3,792	3,312	1,040	2,272	481	38 4	31 4
1924-----	4,591	4,010	1,532	2,478	1,581	3,610	3,145	1,012	2,133	466	38 2	32 1
1925-----	4,910	4,224	1,473	2,751	686	4,227	3,716	1,151	2,565	510	34 9	31 0
1926-----	4,809	4,050	1,401	2,649	59	4,431	3,891	1,195	2,696	540	34 6	30 7
1927-----	4,865	4,097	1,434	2,663	768	4,185	3,662	1,215	2,447	523	35 0	33 2
1928-----	5,128	4,277	1,472	2,804	851	4,091	3,550	1,133	2,418	541	34 4	31 9

## TOTAL WATER-BORNE EXPORTS AND IMPORTS COMBINED

Yearly average or year	Total	In American vessels	In foreign vessels	Per cent in American vessels	Year	Total	In American vessels	In foreign vessels	Per cent in American vessels
1830 <sup>2</sup> -----	145	130	15	89 7	1916-----	6,977	1,197	5,780	17 2
1840 <sup>2</sup> -----	239	198	41	82 3	1917-----	7,994	1,679	6,315	21 0
1850 <sup>2</sup> -----	330	239	91	72 5	1918-----	7,803	1,703	6,100	21 8
1860 <sup>2</sup> -----	762	507	255	66 5	1919-----	10,504	3,824	6,680	36 4
1870 <sup>2</sup> -----	913	323	590	35 6	1920-----	11,983	5,153	6,830	43 0
1871-1875 <sup>4</sup> ---	1,162	326	835	30 6	1921-----	6,075	2,167	3,908	35 7
1876-1880 <sup>4</sup> ---	1,206	289	917	23 9	1922-----	5,985	2,133	3,803	36 5
1881-1885-----	1,419	229	1,190	16 2	1923-----	6,850	2,398	4,453	35 0
1886-1890-----	1,398	198	1,200	14 1	1924-----	7,155	2,544	4,611	35 7
1891-1895-----	1,598	198	1,400	12 4	1925-----	7,940	2,624	5,316	33 0
1896-1900-----	1,784	179	1,605	10 0	1926-----	7,941	2,596	5,345	34 0
1901-1905-----	2,225	220	2,005	9 9	1927-----	7,759	2,649	5,110	34 1
1906-1910-----	2,838	287	2,552	10 1	1928-----	7,827	2,605	5,222	33 3
1911-1915-----	3,639	385	3,254	10 6					
1915-1920 <sup>4</sup> ---	8,673	2,534	6,140	29 2					
1921-1925-----	6,801	2,393	4,418	35 0					

<sup>1</sup>Exports include parcel post beginning 1924, imports, beginning 1921.

<sup>2</sup>Includes gold and silver coin and bullion to 1879, inclusive.

<sup>3</sup>Included in American and foreign vessels

<sup>4</sup>Average for period July 1, 1915, to Dec 31, 1920

Source: Bureau of Foreign and Domestic Commerce.

**No. 500.—EXPORTS (EXCLUDING REEXPORTS) AND IMPORTS OF MERCHANDISE. VALUE BY METHOD OF CARRIAGE, AND NATIONALITY OF VESSEL**

NOTE.—All figures in thousands of dollars All data for calendar years

	1914	1920	1922	1924	1925	1926	1927	1928
<b>Exports, excluding reexports</b> -----	<b>2,071,058</b>	<b>3,080,481</b>	<b>3,765,091</b>	<b>4,487,649</b>	<b>4,818,722</b>	<b>4,711,721</b>	<b>4,758,864</b>	<b>5,030,099</b>
American vessels-----	186,926	3,116,440	1,248,736	1,514,802	1,458,199	1,387,814	1,419,967	1,459,913
Foreign vessels								
Belgian-----	7,763	76,370	25,369	37,442	37,792	36,163	33,569	36,825
British-----	1,011,691	2,587,813	1,147,027	1,321,242	1,423,507	1,340,361	1,333,325	1,341,794
Danish-----	(1)	71,841	53,348	88,164	94,980	81,107	94,650	93,654
Dutch-----	83,895	157,957	91,486	127,952	166,413	168,064	172,705	164,090
French-----	70,037	166,126	111,539	117,423	137,218	132,300	121,166	123,183
German-----	158,640	9,671	54,702	149,660	163,767	168,301	221,028	232,283
Italian-----	44,544	215,441	94,707	119,932	146,858	124,631	114,792	113,614
Japanese-----	23,957	208,876	158,416	167,638	173,205	163,492	144,140	158,532
Norwegian-----	89,821	236,696	132,729	128,603	172,324	177,310	197,300	236,005
Spanish-----	(1)	113,291	55,876	65,223	62,167	62,784	48,796	50,505
Swedish-----	(1)	51,074	34,051	51,430	53,598	73,542	78,912	83,504
All other-----	126,611	130,515	32,096	61,685	89,975	91,167	69,512	84,338
Total foreign-----	1,616,959	4,028,671	1,991,348	2,436,394	2,721,804	2,619,229	2,629,915	2,770,298
Parcel post-----				21,420	26,052	27,977	27,785	29,014
Cars and other land vehicles-----	267,173	935,370	525,007	525,033	612,667	676,701	681,197	770,873
<b>Imports</b> -----	<b>1,789,276</b>	<b>5,278,481</b>	<b>3,112,747</b>	<b>3,609,962</b>	<b>4,226,589</b>	<b>4,430,888</b>	<b>4,184,742</b>	<b>4,071,444</b>
American vessels-----	216,199	1,987,861	921,054	1,011,686	1,151,242	1,194,995	1,214,827	1,132,598
Foreign vessels								
Belgian-----	24,404	24,736	10,342	10,015	10,211	13,839	12,063	11,309
British-----	808,344	1,600,697	974,273	1,116,906	1,384,926	1,366,926	1,133,818	1,120,985
Danish-----	(1)	40,767	51,863	62,673	54,142	49,131	58,943	57,452
Dutch-----	90,840	187,478	99,554	96,898	122,278	151,499	111,500	135,195
French-----	82,945	141,181	140,112	138,202	147,809	160,865	151,833	140,621
German-----	151,613	14	27,755	73,482	85,945	139,517	162,508	199,154
Italian-----	39,796	60,618	45,254	60,057	70,653	78,483	75,639	65,170
Japanese-----	57,545	454,180	212,203	267,081	390,393	382,236	404,540	377,108
Norwegian-----	82,679	111,811	147,689	183,094	164,095	167,654	154,068	150,137
Spanish-----	(1)	36,148	11,220	16,884	15,886	20,933	20,897	16,926
Swedish-----	(1)	27,663	21,975	37,095	36,102	51,072	54,933	50,173
All other-----	77,410	57,959	40,764	69,459	82,624	104,635	75,526	98,085
Total foreign-----	1,415,576	2,743,252	1,783,004	2,132,836	2,565,074	2,695,820	2,446,567	2,417,633
Parcel post-----			98,375	107,189	125,133	129,161	111,501	110,153
Cars and other land vehicles-----	157,501	547,368	310,314	358,251	385,140	410,912	411,846	431,061

<sup>1</sup> Included in "All other"

Source Bureau of Foreign and Domestic Commerce

## 22.—FOREIGN COMMERCE OF THE UNITED STATES

[All statistics of foreign commerce in this section are compiled in the Bureau of Foreign and Domestic Commerce, Department of Commerce. The geographic area covered by these statistics, except as noted, is the United States customs area which includes Alaska, Hawaii, and Porto Rico. See headnote, Table 502. Other explanations of the trade tables are given in the introduction to the Annual Commerce and Navigation of the United States.]

### No. 501 — SUMMARY OF FOREIGN TRADE OF THE UNITED STATES

NOTE — Figures for 1911–1915 cover fiscal years, thereafter calendar years are shown

[All figures in thousands of dollars]

	1911–1915, average	1915–1920, <sup>1</sup> average	1921–1925, average	1925	1926	1927	1928
Merchandise							
Exports	2,370,539	6,521,190	4,397,026	4,909,648	4,808,660	4,885,375	5,128,356
United States merchandise	2,331,648	6,416,513	4,310,221	4,818,722	4,711,721	4,758,864	5,030,099
Reexports of foreign merchandise	38,891	104,677	86,805	91,125	96,939	106,512	98,258
General imports	1,712,319	3,358,354	4,450,103	4,226,589	4,430,888	4,184,742	4,091,447
Excess of exports	658,220	3,162,836	946,924	683,258	377,772	680,633	1,036,912
Gold							
Exports	83,173	233,248	82,739	262,640	115,708	201,455	560,759
United States gold	81,151	255,867	81,183	262,263	114,094	201,241	555,386
Foreign gold	2,022	7,382	1,557	377	1,614	214	5,373
Imports	85,969	392,022	347,425	128,273	213,504	207,535	163,897
Excess of exports (+) or imports (–)	–2,796	–148,773	–264,686	+134,367	–97,796	–6,080	+391,862
Silver							
Exports	81,432	143,447	79,174	99,128	92,258	75,625	87,382
United States silver	56,864	127,414	52,662	81,503	74,558	60,315	64,329
Foreign silver	4,568	16,034	26,512	17,325	17,700	15,310	23,053
Imports	38,739	64,217	69,409	64,595	69,596	55,074	68,117
Excess of exports (+) or imports (–)	+22,693	+79,231	+9,765	+34,532	+22,662	+20,551	+19,265
Excess of exports (+) or imports (–) of merchandise, gold and silver	+678,117	+3,093,293	+692,003	+852,157	+302,638	+695,104	+1,448,039
Imports of merchandise for consumption	1,698,029	3,288,839	3,422,748	4,176,218	4,408,076	4,163,090	4,077,837
Entered for immediate consumption	1,518,447	3,075,230	3,050,279	3,702,322	3,948,815	3,719,856	3,655,371
Withdrawn from warehouse	179,582	213,609	372,469	473,896	459,261	443,234	422,566
Free	966,141	2,262,412	2,088,932	2,708,828	2,908,107	2,680,059	2,678,633
Dutiable	731,887	1,025,215	1,333,816	1,467,391	1,499,969	1,483,031	1,399,304
Per cent free	56.80	68.79	61.03	64.87	65.97	64.38	65.68
Duties calculated	283,408	227,035	478,911	551,853	590,045	574,839	542,270
Ratio of duties to total imports for consumption, per cent	16.69	6.90	13.99	13.21	13.39	13.81	13.30
Ratio to dutiable imports	38.72	22.08	35.90	37.61	39.34	38.76	38.76
Entered for warehouse	193,872	283,124	399,824	524,267	482,073	464,886	436,073
Remaining in warehouse, end of period	94,406	249,291	172,859	193,899	202,143	207,958	208,766

<sup>1</sup> Period July 1, 1915, to Dec 31, 1920

# No. 502 —MERCHANDISE TRADE OF CONTINENTAL UNITED STATES WITH FOREIGN COUNTRIES AND OUTLYING TERRITORIES AND POSSESSIONS

**IMPORTANT NOTE**—This table differs as to its geographic basis from all other foreign trade tables in this section and in other publications. (1) In the case of other tables the data represent the trade of the "customs area," which includes continental United States, Alaska, Hawaii, and Porto Rico, but not other outlying possessions. Consequently trade between continental United States and Alaska, Hawaii, and Porto Rico is not covered by the figures, while trade between these three Territories and foreign countries is so included. On the other hand, trade between continental United States (also Alaska, Hawaii, and Porto Rico) and the Philippine and Virgin Islands is covered, being treated as if it were trade with foreign countries. However, neither the trade between continental United States and Guam and American Samoa nor their trade with other countries, is covered. (2) The present table takes continental United States as the basis. In the totals, trade between it and Alaska, Hawaii, and Porto Rico is included while their trade with foreign countries is excluded. Trade of continental United States with Guam and American Samoa is also included. Practically all other nations calculate their foreign trade in the manner followed in the present table, that is, totaling the trade of the home country with foreign countries and with all outlying areas. Prior to 1901 Alaska was our only outlying area. Therefore our foreign trade statistics for 1900 and earlier years very nearly represent the trade of continental United States with foreign countries. Data are for years ended June 30, through 1918; thereafter for years ended Dec. 31

[All figures in thousands of dollars]

Yearly average or year	Exports <sup>1</sup>			Imports		
	Total	To foreign countries	To United States Territories and possessions	Total	From foreign countries	From United States Territories and possessions
1906-1910.....	1,829,286	1,761,625	67,661	1,410,329	1,324,594	85,734
1911-1915.....	2,441,254	2,337,591	103,664	1,811,234	1,681,207	130,027
1915-1920 <sup>2</sup> .....	6,656,126	6,452,539	203,587	3,596,084	3,274,496	321,588
1921-1925.....	4,552,455	4,335,341	217,114	3,650,280	3,351,378	298,902
1903.....	1,447,253	1,410,420	36,838	1,067,420	1,008,531	58,889
1904.....	1,487,934	1,449,840	38,094	1,031,794	972,663	59,131
1905.....	1,551,657	1,508,137	43,520	1,173,079	1,097,829	75,250
1906.....	1,734,527	1,732,860	51,667	1,275,189	1,207,507	67,682
1907.....	1,932,794	1,865,544	67,250	1,488,894	1,414,055	74,839
1908.....	1,907,874	1,842,104	65,770	1,264,301	1,175,572	88,729
1909.....	1,717,172	1,646,784	70,388	1,384,318	1,294,822	89,496
1910.....	1,804,063	1,720,831	83,232	1,638,942	1,530,956	107,986
1911.....	2,115,186	2,022,874	92,312	1,607,343	1,499,918	107,425
1912.....	2,278,732	2,172,434	106,298	1,762,351	1,619,428	142,923
1913.....	2,539,837	2,429,962	109,875	1,909,427	1,780,538	128,889
1914.....	2,434,851	2,327,087	107,764	1,980,228	1,865,197	115,031
1915.....	2,837,666	2,735,597	102,069	1,796,822	1,640,953	155,869
1916.....	4,420,846	4,302,873	117,973	2,362,645	2,159,598	203,047
1917.....	6,412,069	6,250,649	161,420	2,856,008	2,603,871	252,137
1918.....	6,064,232	5,857,167	197,065	3,150,128	2,854,047	296,081
1918 (6 months).....	3,222,793	3,138,793	84,000	1,614,762	1,430,878	183,884
1919.....	8,059,279	7,833,823	225,456	4,125,976	3,821,142	304,834
1920.....	8,439,474	8,105,660	333,814	5,668,942	5,140,192	528,750
1921.....	4,620,537	4,427,556	192,981	2,672,013	2,438,856	233,157
1922.....	3,963,077	3,780,020	183,057	3,282,296	3,035,381	246,915
1923.....	4,333,730	4,109,344	224,386	4,010,641	3,697,607	313,034
1924.....	4,761,644	4,521,219	240,425	3,832,148	3,494,159	337,989
1925.....	5,083,287	4,838,565	244,722	4,455,787	4,090,887	364,900
1926.....	4,991,783	4,729,811	261,972	4,669,318	4,303,302	366,016
1927.....	5,056,957	4,785,482	271,475	4,421,181	4,047,124	374,057
1928.....	5,311,007	5,038,692	272,315	4,349,684	3,951,181	398,503

<sup>1</sup> Exports include both United States merchandise and reexports of foreign merchandise

<sup>2</sup> Period July 1, 1915, to Dec. 31, 1920.

### No. 503.—PRODUCTION OF EXPORTABLE GOODS AND PROPORTION EXPORTED

NOTE.—Agricultural production excludes duplications and seeds. Value added to materials by manufacture is used to represent manufacturing. Value of mine products in 1909 and 1919 are census figures while estimates for other years are based on data of the Bureau of Mines. As the figures are not adjusted for price changes the increase or decrease in absolute values from period to period should be disregarded.

[Amounts in millions of dollars]

Year	Agricultural products	Manufactures	Mining	Freight receipts (railroad)	Total	Exports, United States merchandise	Per cent of total
1899	3,355	4,831	600	1,981	9,767	1,253	12.8
1904	4,262	6,294	850	1,415	12,821	1,426	11.1
1909	6,472	8,529	1,238	1,801	18,040	1,701	9.4
1914	8,165	9,675	1,450	2,082	21,372	2,071	9.7
1919	17,677	24,748	3,158	3,625	49,208	7,750	15.7
1921	10,268	18,327	2,900	4,004	35,499	4,379	12.3
1923	12,382	25,846	4,300	4,712	47,240	4,091	8.7
1925	13,084	26,771	4,100	4,638	48,603	4,819	9.9
1927	<sup>2</sup> 13,000	27,586	4,000	4,745	49,331	4,759	9.6

<sup>1</sup> Mean of preceding and following fiscal year

<sup>2</sup> Approximate.

### No. 504.—EXPORTS OF MANUFACTURED GOODS IN RELATION TO TOTAL PRODUCTION

NOTE.—The value of materials excluding duplication is necessarily an approximation and hence is expressed as a maximum and minimum. As the figures are not adjusted for price changes the absolute increase or decrease from period to period should be disregarded.

[Amounts in millions of dollars]

Year	Value of product			Exports of United States merchandise	
	Materials, excluding duplication	Value added by manufacture	Total net value	Amount	Per cent
All manufactures					
1899	2,300-2,800	4,831	7,100-7,600	745	9.8-10.5
1904	3,100-3,700	6,294	9,400-10,000	863	8.6-9.2
1909	4,300-5,200	8,529	12,800-13,700	1,001	7.3-7.8
1914	5,300-6,500	9,675	15,000-16,200	1,505	9.3-10.0
1919	12,500-14,500	24,748	37,250-39,250	5,449	13.9-14.6
1921	8,000-9,400	18,327	26,300-27,700	2,722	9.8-10.3
1923	11,500-13,200	25,846	37,350-39,050	2,625	6.7-7.0
1925	11,900-13,600	26,771	38,700-40,400	3,079	7.1-8.0
1927	11,750-13,450	27,586	39,300-41,000	3,146	7.7-8.0
Foodstuffs manufactures					
1899	1,300-1,500	415	1,700-1,900	312	16.4-18.4
1904	1,700-2,000	540	2,250-2,550	295	11.6-13.2
1909	2,200-2,700	750	2,950-3,450	281	8.1-9.5
1914	2,700-3,300	1,056	3,750-4,350	374	8.6-10.0
1919	7,100-8,300	2,434	9,500-10,700	1,063	18.3-20.7
1921	4,100-4,800	2,084	6,200-6,900	685	9.9-11.0
1923	4,750-5,500	2,460	7,200-7,950	583	7.3-8.1
1925	5,300-6,100	2,663	7,950-8,750	574	6.6-7.2
1927	5,500-6,300	2,886	8,400-9,200	463	5.0-5.5
Other manufactures					
1899	1,000-1,300	4,416	5,400-5,700	433	7.6-8.0
1904	1,400-1,700	5,734	7,150-7,450	567	7.6-7.9
1909	2,100-2,500	7,779	9,850-10,250	720	7.0-7.3
1914	2,600-3,200	8,639	11,250-11,850	1,131	9.5-10.1
1919	5,400-6,200	22,314	27,750-28,550	3,486	12.2-12.6
1921	3,900-4,600	16,233	20,100-20,900	2,037	9.8-10.1
1923	6,750-7,700	23,386	30,150-31,100	2,042	6.6-6.8
1925	6,600-7,500	24,108	30,750-31,650	2,505	7.9-8.1
1927	6,250-7,150	24,700	30,900-31,800	2,082	8.4-8.7

# No. 505.—INDEXES OF CHANGES IN QUANTITY, PRICE, AND VALUE OF IMPORTS AND EXPORTS OF UNITED STATES MERCHANDISE

NOTE.—The purpose of these indexes is to eliminate the effect of price changes upon the total value of trade. They have been constructed by the so-called ideal formula, the essential feature of which is the use as weighting factors of the mean of the values of the several articles during each pair of years compared. For many commodities no quantitative data are available and for others the quantities lack significance because of variation in grades, size, and styles. About 180 commodities were included in the direct calculations for exports and 160 in those for imports, representing somewhat over two-thirds of the total value. It was then assumed that the prices of articles not directly covered had moved in parallel with those of articles covered save only that in making the adjustment the effect of abnormal price movements of heavily weighted commodities was first eliminated. In constructing the indexes, data for 1919 were linked directly to 1913 and each subsequent year was compared with that preceding. The resulting percentages were made into a series by the chain method.

Yearly average or year	Exports of U S merchandise			Imports			Domestic wholesale price index
	Quantity	Price	Value	Quantity	Price	Value	
1913 taken as 100.							
1913.....	100	100	100	100	100	100	100
1910-1914 <sup>1</sup> .....	89	( <sup>2</sup> )	87	( <sup>2</sup> )	( <sup>2</sup> )	94	98
1921-1925.....	123	144	176	151	126	192	142
1919.....	142	223	317	125	174	218	199
1920.....	137	241	330	139	213	294	221
1921.....	120	150	179	120	117	140	140
1922.....	112	138	154	154	113	174	139
1923.....	115	146	167	161	132	212	144
1924.....	130	143	184	156	129	201	141
1925.....	137	144	197	166	142	236	148
1926.....	146	133	192	178	130	247	143
1927.....	158	124	194	180	130	233	137
1928.....	165	125	206	181	126	228	140
1923-1925 taken as 100							
1913.....	79	69	55	62	75	46	69
1910-1914 <sup>1</sup> .....	70	( <sup>2</sup> )	48	( <sup>2</sup> )	( <sup>2</sup> )	44	62
1921-1925.....	96	100	96	94	94	89	99
1919.....	112	155	173	78	130	101	138
1920.....	108	167	181	86	158	136	153
1921.....	94	104	98	75	87	65	87
1922.....	88	95	84	96	84	80	87
1923.....	90	101	92	100	98	98	100
1924.....	102	99	101	97	96	93	97
1925.....	108	100	108	103	106	109	103
1926.....	115	92	105	110	104	114	99
1927.....	124	86	107	112	96	108	95
1928.....	130	86	113	113	94	106	97

<sup>1</sup> Fiscal years

<sup>2</sup> Indexes not calculated for 1910-1914. The quantity index of exports is estimated by assuming that the relation of export prices in 1910-1914 to 1913 was the same as that for domestic prices.

# No. 506.—EXPORTS AND IMPORTS OF GOLD AND SILVER: BY MONTHS

[All figures in thousands of dollars]

Month	Gold						Silver					
	1926		1927		1928		1926		1927		1928	
	Ex-ports	Im-ports	Ex-ports	Im-ports	Ex-ports	Im-ports	Ex-ports	Im-ports	Ex-ports	Im-ports	Ex-ports	Im-ports
January.....	3,087	19,351	14,890	59,355	52,086	38,320	9,763	5,763	7,388	5,151	6,692	6,305
February.....	3,851	25,416	2,414	22,309	25,806	14,686	7,752	8,863	6,233	3,849	7,479	4,658
March.....	4,225	43,413	5,625	16,382	97,536	2,683	8,333	5,539	6,077	4,308	7,405	5,134
April.....	17,884	13,116	2,592	14,503	96,469	5,319	7,612	6,322	6,824	3,815	6,587	4,888
May.....	9,343	2,935	2,510	34,212	83,689	1,968	7,931	4,872	6,026	5,083	6,712	4,247
June.....	3,846	18,890	1,840	14,611	99,932	20,001	7,978	5,628	5,444	4,790	7,456	6,221
July.....	5,070	19,820	1,803	10,738	74,190	10,331	7,921	5,949	6,650	4,288	6,160	6,544
August.....	29,743	11,979	1,524	7,877	1,698	2,445	8,041	5,989	5,590	4,866	9,246	6,496
September.....	23,081	15,987	24,444	12,979	3,810	4,273	7,243	7,203	6,627	4,992	6,229	5,739
October.....	1,156	8,857	10,698	2,056	992	14,331	7,279	5,098	5,945	5,069	7,252	7,319
November.....	7,727	16,738	55,266	2,082	22,916	29,591	6,794	3,941	5,634	5,102	7,674	5,448
December.....	7,196	17,004	77,849	10,431	1,636	24,950	5,610	4,430	7,186	3,770	8,489	5,120



# No. 507.—GOLD UNDER EARMARK FOR FOREIGN ACCOUNT IN THE UNITED STATES

NOTE.—Gold under earmark is gold placed by a bank in the custody of its foreign correspondent but segregated and marked in such a manner as to indicate that the identical coins or bars earmarked are the bank's property and altogether subject to its disposal

[All figures in thousands of dollars]

Year	Increase or decrease during year of gold under earmark <sup>1</sup>	Month	Amount under earmark at end of month					
			1916	1917	1918	1919	1920	1921
1917.....	+845	January.....		6,097	6,942	6,942	6,000	18,010
1918.....		February.....		6,097	6,942	6,942	5,000	20,000
1919.....	-1,942	March.....	2,391	6,097	6,942	6,842	6,000	20,000
1920.....	+17,000	April.....	4,571	6,097	6,942		9,000	20,000
1921.....	-22,000	May.....	4,571	6,097	6,942		10,000	20,000
1922.....	+3,700	June.....	5,071	6,097	6,942		11,500	23,000
1923.....	-700	July.....	5,402	6,097	6,942		14,500	18,000
1924.....	+42,213	August.....	5,502	6,778	6,942		16,500	18,000
1925.....	-32,244	September.....	5,955	6,942	6,942		17,500	8,000
1926.....	+26,297	October.....	5,981	6,942	6,942	3,000	20,000	
1927.....	+160,153	November.....	5,981	6,942	6,942	4,000	20,500	
1928.....	-119,522	December.....	6,097	6,942	6,942	5,000	22,000	

Month	Amount under earmark at end of month						
	1922	1923	1924	1925	1926	1927	1928
January.....		5,329	3,000	46,023	19,012	19,779	193,919
February.....		1,000	2,407	47,389	30,012	16,599	191,051
March.....		1,000	4,859	54,214	53,000	18,101	155,251
April.....			5,417	39,364	53,000	19,101	109,511
May.....			4,417	26,639	53,000	114,101	136,050
June.....			2,417	21,564	53,580	114,601	105,997
July.....		1,500	5,000	25,465	49,580	114,417	45,050
August.....		1,500	12,984	16,740	30,380	116,918	39,134
September.....		1,000	26,213	15,839	32,780	125,918	40,334
October.....	1,500	3,000	43,213	12,969	32,776	150,919	39,134
November.....	1,700	3,000	43,713	10,969	40,274	190,919	64,136
December.....	3,700	3,000	45,213	12,969	39,266	199,419	79,897

<sup>1</sup> Increase is the equivalent of net export and decrease the equivalent of net import.

Source. Federal Reserve Board

# No. 508.—EXPORTS (INCLUDING REEXPORTS) AND GENERAL IMPORTS OF MERCHANDISE: By MONTHS

[All figures in millions and tenths of millions of dollars]

Month	1901		1902		1903		1904		1905		1906	
	Ex-ports	Im-ports	Ex-ports	Im-ports	Ex-ports	Im-ports	Ex-ports	Im-ports	Ex-ports	Im-ports	Ex-ports	Im-ports
January.....	136.3	69.3	129.1	79.1	134.0	85.2	142.0	82.6	123.6	98.3	170.6	106.5
February.....	113.0	64.5	101.6	68.4	125.6	82.6	118.8	89.0	106.9	103.1	141.8	104.2
March.....	124.5	75.9	106.7	84.2	132.1	96.2	119.9	91.3	137.0	110.4	145.5	113.6
April.....	120.8	76.7	109.2	75.8	109.8	87.7	109.9	83.5	128.6	95.1	144.4	107.3
May.....	124.6	78.6	102.3	75.7	100.9	79.0	89.9	80.7	123.8	92.5	130.5	104.9
June.....	102.8	68.4	89.2	73.1	95.2	82.0	93.2	81.2	121.2	90.4	125.0	100.8
July.....	109.5	73.1	88.8	79.1	91.8	82.2	85.2	71.2	107.9	84.5	111.7	102.6
August.....	108.0	73.1	94.9	78.9	89.4	82.0	92.3	87.7	117.7	95.8	129.8	105.7
September.....	107.0	66.8	121.2	87.7	110.4	81.8	134.3	84.1	136.0	102.0	138.5	102.6
October.....	145.7	81.4	144.3	87.4	160.4	81.9	162.5	92.8	154.4	107.4	187.4	118.1
November.....	136.5	72.6	125.2	85.4	160.3	77.0	158.1	95.2	170.3	98.3	182.7	119.8
December.....	136.9	79.9	148.0	94.4	174.8	77.8	145.3	96.6	199.7	101.1	190.4	134.3
Month	1907		1908		1909		1910		1911		1912	
	Ex-ports	Im-ports	Ex-ports	Im-ports	Ex-ports	Im-ports	Ex-ports	Im-ports	Ex-ports	Im-ports	Ex-ports	Im-ports
January.....	189.3	126.6	206.1	85.0	156.7	103.6	144.5	133.7	197.1	130.6	202.4	143.6
February.....	159.5	123.0	167.8	84.8	126.1	118.7	124.6	130.1	176.0	121.7	198.8	134.2
March.....	161.7	133.1	141.6	89.1	139.3	132.9	143.7	163.0	161.9	139.0	205.4	157.6
April.....	157.5	129.6	133.4	87.4	125.2	122.2	133.1	133.9	158.0	119.8	179.3	162.6
May.....	134.8	126.5	113.6	84.0	123.3	116.1	131.1	118.8	153.2	126.8	175.4	155.7
June.....	137.7	112.5	115.4	92.1	117.4	124.7	127.9	119.9	141.7	122.8	138.2	131.0
July.....	128.5	124.6	103.2	86.4	109.3	112.5	114.6	117.3	127.7	118.1	148.9	148.7
August.....	127.3	125.8	110.4	91.2	109.8	117.1	134.7	138.4	144.2	125.9	167.8	154.8
September.....	135.3	106.4	139.3	98.4	154.0	121.0	168.9	117.3	195.8	125.2	199.7	144.8
October.....	180.3	111.9	172.0	102.0	200.7	127.7	207.7	124.0	210.4	132.6	254.6	178.0
November.....	204.5	110.9	161.3	103.9	194.0	140.5	206.6	129.8	201.8	126.2	278.2	153.1
December.....	207.1	92.2	188.8	111.9	172.5	138.7	229.0	136.7	224.9	140.7	250.3	154.1
Month	1913		1914		1915		1916		1917		1918	
	Ex-ports	Im-ports	Ex-ports	Im-ports	Ex-ports	Im-ports	Ex-ports	Im-ports	Ex-ports	Im-ports	Ex-ports	Im-ports
January.....	227.0	163.1	204.1	154.7	267.9	122.1	330.0	184.4	613.3	241.8	504.8	233.9
February.....	194.0	149.9	173.9	148.0	299.8	125.1	401.8	193.9	467.6	199.5	432.4	207.7
March.....	187.4	155.4	187.5	182.6	296.6	158.0	410.7	213.6	554.0	270.3	522.9	242.2
April.....	199.8	146.2	162.6	173.8	294.7	160.6	398.6	218.2	529.9	253.9	500.4	279.0
May.....	194.6	133.7	161.7	164.3	274.2	142.3	474.8	229.2	549.7	280.7	550.9	322.9
June.....	163.4	131.2	157.1	157.5	268.5	157.7	464.7	245.8	573.5	306.6	483.8	260.4
July.....	161.0	139.1	154.1	159.7	268.5	143.2	444.7	182.7	372.8	225.8	507.5	241.9
August.....	187.9	137.7	110.4	129.8	260.6	141.8	510.2	199.3	488.7	267.9	527.0	273.0
September.....	218.2	171.1	156.1	139.7	300.7	151.2	514.9	164.0	454.5	236.2	550.4	261.7
October.....	271.9	132.9	194.7	138.1	336.2	149.2	492.8	178.7	542.1	221.2	501.9	246.8
November.....	245.5	148.2	205.9	126.5	327.7	155.5	516.2	177.0	487.3	220.5	522.2	251.0
December.....	233.2	184.0	245.6	114.7	358.3	171.8	523.2	204.8	600.1	227.9	565.9	210.9
Month	1919		1920		1921		1922		1923		1924	
	Ex-ports	Im-ports	Ex-ports	Im-ports	Ex-ports	Im-ports	Ex-ports	Im-ports	Ex-ports	Im-ports	Ex-ports	Im-ports
January.....	622.0	213.0	722.1	473.8	654.3	208.8	278.8	217.2	335.4	329.3	395.2	295.5
February.....	585.1	235.1	645.1	467.4	486.5	214.5	250.6	215.7	307.0	303.4	365.8	332.3
March.....	603.1	267.6	819.6	523.9	386.7	252.0	330.0	256.2	341.4	298.0	339.8	320.5
April.....	714.8	273.0	684.3	495.7	340.5	254.6	318.5	217.0	325.5	364.3	346.9	324.3
May.....	604.0	328.9	745.5	431.0	329.7	204.9	307.6	252.8	335.4	372.5	355.1	303.0
June.....	928.4	292.9	629.4	552.6	336.9	185.7	335.1	260.5	320.0	320.2	207.0	274.0
July.....	568.7	343.7	651.1	537.1	325.2	178.2	301.2	251.8	302.2	287.4	276.6	275.0
August.....	646.1	307.3	578.2	513.1	366.9	194.8	301.8	281.4	311.0	275.4	330.7	254.5
September.....	595.2	435.4	604.7	363.3	324.9	179.3	313.2	229.5	381.4	253.6	427.5	287.1
October.....	631.6	401.8	751.2	333.2	343.3	188.0	370.7	345.1	399.2	308.3	527.2	310.8
November.....	740.0	424.8	676.5	321.2	294.1	210.9	380.0	291.8	401.5	291.3	493.6	296.1
December.....	681.4	380.7	720.3	266.1	296.2	237.5	344.3	293.8	426.7	288.3	445.7	333.2
Month	1925		1926		1927		1928		1929			
	Ex-ports	Im-ports	Ex-ports	Im-ports	Ex-ports	Im-ports	Ex-ports	Im-ports	Ex-ports	Im-ports	Ex-ports	Im-ports
January.....	446.4	346.2	396.8	416.8	419.4	356.8	410.8	337.9	488.0	368.9	-----	-----
February.....	370.7	333.4	352.9	387.3	372.4	210.9	371.4	351.0	441.8	369.4	-----	-----
March.....	453.7	385.4	374.4	442.9	409.0	378.3	420.6	380.4	489.9	383.8	-----	-----
April.....	398.3	346.1	388.0	397.9	415.4	375.7	356.9	345.3	425.8	410.7	-----	-----
May.....	370.9	327.5	356.7	320.9	393.1	346.5	326.8	354.0	-----	-----	-----	-----
June.....	323.3	325.2	338.0	336.3	357.0	354.9	388.7	317.2	-----	-----	-----	-----
July.....	339.7	325.6	368.3	339.0	341.8	319.3	379.0	317.8	-----	-----	-----	-----
August.....	379.8	340.1	384.4	336.5	374.8	368.9	379.0	346.7	-----	-----	-----	-----
September.....	420.4	350.0	448.1	343.2	425.3	342.2	421.6	319.6	-----	-----	-----	-----
October.....	490.6	374.1	455.3	376.9	488.7	355.7	550.0	355.4	-----	-----	-----	-----
November.....	447.8	376.4	480.3	373.9	460.9	344.3	544.9	326.6	-----	-----	-----	-----
December.....	468.3	396.6	465.4	359.5	407.6	331.2	475.8	330.4	-----	-----	-----	-----

## No. 509.—ESTIMATED BALANCE OF INTERNATIONAL PAYMENTS OF THE UNITED STATES

NOTE.—All figures in millions of dollars. Many items included in this statement are very rough estimates. For full explanations of the items see "The Balance of International Payments of the United States in 1928" Trade Information Bulletin No. 625 of the Bureau of Foreign and Domestic Commerce

Classes of international transactions	1927 (revised)			1928		
	Credits	Debits	Balance	Credits	Debits	Balance
<b>COMMODITY TRADE</b>						
Merchandise exports and imports (as reported) .....	4,865	4,184	+681	5,129	4,091	+1,038
Silver .....	76	55	+21	87	68	+19
Bunker coal and oil sales to foreign vessels .....	60	29	+31	50	25	+25
Ship chandling, ship repairs, and tonnage dues .....	45	34	+11	45	34	+11
Other merchandise adjustments .....	45	206	-161	23	279	-256
<b>Total commodity trade (as adjusted) .....</b>	<b>5,091</b>	<b>4,508</b>	<b>+583</b>	<b>5,334</b>	<b>4,497</b>	<b>+837</b>
<b>MISCELLANEOUS INVISIBLE ITEMS</b>						
Freight payments and receipts .....						
Oversea and Great Lakes traffic .....	125	149	-24	129	167	-38
Railway earnings on transit shipments .....	15	37	-22	14	40	-26
Foreign inland freight on United States imports .....		20	-20		20	-20
Tourist expenditures .....						
Canada .....	83	199	-116	87	232	-145
Mexican border and overseas (incl. West Indies) .....	80	497	-417	81	550	-469
Ocean-borne passenger traffic .....	89		+89	89		+89
Earnings of long-term private investments .....						
Received from American investments abroad .....	743		+743	817		+817
Paid to foreign investors in the United States .....		203	-203		252	-252
Earnings of short-term interest and commissions .....						
Collected from foreigners abroad .....	57		+57	65		+65
Paid to foreigners abroad .....		78	-78		107	-107
Immigrant remittances .....	35	241	-206	28	217	-189
War-debt receipts of United States Treasury .....						
Interest .....	160		+160	160		+160
Principal .....	46		+46	50		+50
Other United States Government receipts and payments, and foreign representations here .....	57	86	-29	53	110	-57
Missionary and charitable contributions, etc. ....		49	-49		52	-52
Motion-picture royalties .....	75	4	+71	70	6	+64
Insurance transactions .....	80	70	+10	80	70	+10
Miscellaneous minor items .....	44	51	-7	46	53	-7
<b>Total commodity and miscellaneous items .....</b>	<b>6,780</b>	<b>6,192</b>	<b>+588</b>	<b>7,103</b>	<b>6,373</b>	<b>+730</b>
<b>MOVEMENT OF PRIVATE LONG-TERM CAPITAL</b>						
<i>New American investments abroad.</i> .....						
1. Foreign securities publicly offered (par) .....		1,537	-1,537		1,483	-1,483
2. Deduct for "estimated refunding to Americans" .....	235		+235	237		+237
3. Deduct for American underwriters' commissions .....	63		+63	59		+59
4. Deduct for securities issued below par .....	56		+56	63		+63
5. Add new "direct investments" abroad by Americans .....		257	-257		378	-378
6. Add foreign stocks and bonds bought from foreigners in small lots .....		166	-166		568	-568
<i>Reductions of previous American investments abroad.</i> .....						
7. Bond-redemption and sinking-fund payments received from foreigners .....	304		+304	361		+361
8. Resale to foreigners of direct investments .....	51		+51	50		+50
9. Foreign stocks and bonds resold to foreigners .....	398		+398	442		+442
<i>New foreign investments in the United States.</i> .....						
10. Direct investments .....	28		+28	70		+70
11. American stocks and bonds sold to foreigners .....	861		+861	1,634		+1,634
<i>Reductions of previous foreign investments in the United States.</i> .....						
12. Redemption and sinking-fund payments to foreigners .....		70	-70		70	-70
13. American stocks and bonds bought back from foreigners .....		661	-661		1,153	-1,153
<b>Total private, long-term capital items .....</b>	<b>1,996</b>	<b>2,691</b>	<b>-1,695</b>	<b>2,916</b>	<b>3,652</b>	<b>-1,736</b>
Net change in international banking accounts, as revealed by questionnaire .....					226	-226
Gold shipments .....	201	207	-6	561	169	+392
Changes in ear-marked gold .....	183	23	+160	68	188	-120
<b>Grand total, all items .....</b>	<b>9,160</b>	<b>9,113</b>	<b>+47</b>	<b>10,648</b>	<b>10,808</b>	<b>+40</b>

1 Estimated net export of long-term private capital

## No. 510.—EXPORTS AND IMPORTS OF MERCHANDISE

NOTE.—All figures in thousands of dollars. Specie values Figures are for fiscal years ended Sept. 30, 1790 to 1842, and June 30, 1843 to 1915, subsequently for calendar years. For calendar years 1900-1915 and fiscal years 1916-1928, see Supplemental Table 512. For total exports and total imports by years prior to 1884, see Table 513 Figures include gold and silver prior to 1821

Yearly average or year	Exports			General imports	Total exports and imports	Excess of exports (+) or imports (-)
	Total	U S merchandise	Reexports			
1791-1800.....	46,774	27,740	19,034	59,185	105,959	-12,411
1801-1810.....	74,532	38,178	36,354	92,768	167,298	-18,234
1811-1820.....	58,989	46,270	12,719	80,812	139,801	-21,823
1821-1830.....	69,421	53,221	16,200	72,949	142,370	-3,528
1831-1840.....	103,550	88,168	15,382	119,520	223,070	-15,970
1841-1850 <sup>1</sup> .....	122,620	114,894	7,727	121,123	243,743	-1,498
1851-1860.....	248,887	232,283	16,604	284,475	533,362	-35,588
1861-1865.....	187,811	170,198	17,613	255,439	443,250	-67,628
1866-1870.....	320,842	307,696	13,146	408,295	729,137	-87,453
1871-1875.....	501,841	486,128	15,713	577,873	1,079,714	-76,032
1876-1880.....	676,761	663,650	13,111	492,570	1,169,331	+184,191
1881-1885.....	791,892	774,607	17,285	667,142	1,459,034	+124,750
1886-1890.....	738,379	725,685	12,694	717,231	1,455,610	+21,148
1891-1895.....	892,421	876,326	16,095	785,137	1,677,558	+107,284
1896-1900.....	1,157,318	1,136,039	21,279	1,41,519	1,898,837	+415,799
1901-1905.....	1,453,803	1,427,020	26,783	972,162	2,425,965	+481,641
1906-1910.....	1,778,697	1,750,980	27,717	1,344,838	3,123,535	+433,859
1911-1915.....	2,370,539	2,331,648	38,891	1,712,319	4,082,858	+668,220
1915-1920 <sup>2</sup> .....	6,521,190	6,416,513	104,677	3,358,354	9,879,545	+3,162,836
1921-1925.....	4,397,026	4,310,221	86,805	3,450,103	7,847,129	+946,924
1884.....	740,514	724,965	15,549	667,698	1,408,212	+72,816
1885.....	742,190	726,683	15,507	577,527	1,319,717	+104,663
1886.....	679,525	665,965	13,560	635,436	1,314,961	+44,089
1887.....	716,183	703,023	13,160	692,320	1,408,503	+23,863
1888.....	695,955	683,862	12,093	723,957	1,419,912	-28,002
1889.....	742,401	730,282	12,119	745,132	1,487,533	-2,731
1890.....	857,829	845,294	12,535	789,310	1,647,139	+68,519
1891.....	884,481	872,270	12,211	844,916	1,729,397	+39,565
1892.....	1,030,278	1,015,732	14,546	827,402	1,857,680	+202,876
1893.....	847,665	831,031	16,634	866,401	1,714,066	-18,736
1894.....	892,141	869,205	22,936	654,995	1,547,136	+237,146
1895.....	807,538	793,393	14,145	781,970	1,539,508	+75,568
1896.....	882,607	863,201	19,406	779,725	1,662,332	+102,882
1897.....	1,050,994	1,032,008	18,986	764,730	1,815,724	+286,264
1898.....	1,231,482	1,210,292	21,190	616,050	1,847,532	+615,432
1899.....	1,227,023	1,203,931	23,092	697,148	1,924,171	+529,875
1900.....	1,394,483	1,370,764	23,719	849,941	2,244,424	+544,542
1901.....	1,487,765	1,460,463	27,302	923,172	2,310,937	+664,593
1902.....	1,381,719	1,355,482	26,237	903,321	2,285,040	+79,388
1903.....	1,420,142	1,392,232	27,910	1,025,719	2,445,861	+394,423
1904.....	1,460,827	1,435,179	25,648	991,087	2,451,914	+469,740
1905.....	1,518,562	1,491,745	26,817	1,117,513	2,636,075	+401,049
1906.....	1,743,865	1,717,954	25,911	1,226,562	2,970,427	+517,303
1907.....	1,880,851	1,853,718	27,133	1,434,421	3,315,272	+446,430
1908.....	1,860,773	1,834,786	25,987	1,194,342	3,055,115	+666,431
1909.....	1,063,011	1,038,356	24,655	1,311,920	2,974,981	+351,091
1910.....	1,744,985	1,710,084	34,901	1,556,947	3,301,932	+188,038
1911.....	2,049,320	2,013,549	35,771	1,527,226	3,576,546	+522,094
1912.....	2,204,322	2,170,320	34,002	1,653,265	3,857,587	+551,057
1913.....	2,465,884	2,428,506	37,378	1,813,008	4,278,892	+652,876
1914.....	2,394,579	2,329,684	34,895	1,893,926	4,258,505	+470,653
1915.....	2,768,589	2,716,178	52,411	1,674,170	4,442,759	+1,094,419
1915 (6 months).....	1,852,863	1,820,393	32,470	912,787	2,765,650	+940,076
1916.....	5,482,641	5,422,642	59,999	2,391,635	7,874,276	+3,091,006
1917.....	6,233,613	6,169,617	63,996	2,952,468	9,155,981	+3,281,045
1918.....	6,149,088	6,047,875	101,213	3,031,213	9,189,301	+3,117,875
1919.....	7,920,426	7,749,816	170,610	3,904,365	11,824,791	+1,016,061
1920.....	8,228,016	8,080,481	147,535	5,278,481	13,506,497	+2,949,535
1921.....	4,485,031	4,378,928	106,103	2,509,148	6,994,179	+1,975,883
1922.....	3,831,777	3,765,091	66,686	3,112,747	6,944,524	+719,030
1923.....	4,167,493	4,090,715	76,778	3,792,066	7,959,559	+375,427
1924.....	4,500,984	4,497,649	93,335	3,609,963	8,200,947	+981,021
1925.....	4,909,848	4,818,722	91,125	4,226,589	9,136,437	+683,258
1926.....	4,808,660	4,711,721	96,939	4,430,888	9,239,548	+377,772
1927.....	4,865,375	4,758,864	106,512	4,184,742	9,050,117	+680,633
1928.....	5,128,356	5,030,099	98,258	4,091,444	9,219,800	+1,036,912

<sup>1</sup> Period beginning Oct. 1, 1841, and ending June 30, 1850<sup>2</sup> Period July 1, 1915, to Dec. 31, 1920.

# No. 511.—EXPORTS AND IMPORTS OF GOLD, SILVER, AND OF MERCHANDISE, GOLD, AND SILVER COMBINED

NOTE.—All figures in thousands of dollars. As to periods covered see headnote, Table 510. Figures for gold and silver relate to coin and bullion only prior to 1895, subsequently they include ore also. See also Table 512

Yearly average or year	Gold			Silver			Total merchandise, gold, and silver		
	Exports	Imports	Excess of ex-ports (+) or im-ports (-)	Ex-ports	Im-ports	Excess of ex-ports (+) or im-ports (-)	Exports	Imports	Excess of ex-ports (+) or im-ports (-)
1821-1830	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	17,154	16,914	1+239	76,575	79,863	-3,288
1831-1840	2,154	3,394	-1,240	3,530	7,353	-3,823	109,234	130,268	-21,034
1841-1850	3,222	5,463	-2,241	3,445	3,443	+2	129,288	130,029	-741
1851-1860	46,372	3,762	+42,610	3,130	3,988	-858	298,399	292,226	+6,173
1861-1865	56,814	15,881	+40,933	3,961	3,172	+789	248,586	274,492	-25,906
1866-1870	50,452	12,030	+38,422	20,746	6,608	+14,138	392,040	426,932	-34,892
1871-1875	52,423	11,497	+40,926	31,915	9,673	+22,242	586,179	599,043	-12,864
1876-1880	15,040	26,790	-11,750	22,670	13,182	+9,488	714,470	532,542	+181,928
1881-1885	19,263	40,333	-21,070	22,739	12,108	+10,631	833,894	719,583	+114,311
1886-1890	29,651	26,163	+3,488	31,082	18,045	+13,037	799,112	761,439	+37,672
1891-1895	77,737	39,588	+38,149	38,777	18,935	+19,842	1,008,935	843,659	+165,276
1896-1900	50,793	74,492	-23,699	58,125	31,234	+26,891	1,266,236	847,245	+418,991
1901-1905	64,580	63,152	+1,428	51,318	28,807	+22,511	1,569,701	1,064,122	+505,579
1906-1910	74,500	89,283	-14,783	58,300	44,244	+14,056	1,911,497	1,478,365	+433,132
1911-1915	89,173	85,969	-2,796	61,432	38,739	+22,693	2,515,144	1,837,027	+678,117
1915-1920 <sup>2</sup>	233,248	382,022	-148,773	143,447	64,217	+79,231	6,897,886	3,804,953	+3,092,933
1921-1925	82,739	347,425	-264,686	79,174	69,409	+9,765	4,568,940	3,866,937	+692,003
1884	41,082	22,831	+18,251	26,051	14,595	+11,456	807,647	705,124	+102,523
1885	8,478	26,692	-18,214	33,794	16,551	+17,203	784,421	620,770	+163,651
1886	42,952	20,743	+22,209	29,511	17,850	+11,661	751,988	674,030	+77,958
1887	9,701	42,911	-33,210	26,297	17,260	+9,037	752,181	752,491	-310
1888	18,376	43,934	-25,558	28,038	15,404	+12,634	742,369	733,095	+9,274
1889	59,952	10,285	+49,667	36,089	18,678	+17,411	839,043	774,095	+64,948
1890	17,274	12,943	+4,331	34,874	21,033	+13,841	909,977	823,287	+86,690
1891	86,363	18,233	+68,130	22,591	18,027	+4,564	993,434	881,176	+112,258
1892	50,195	49,699	+496	32,811	19,955	+12,856	1,113,284	897,057	+216,227
1893	108,681	21,174	+87,507	40,737	23,193	+17,544	997,083	910,769	+86,314
1894	76,978	72,449	+4,529	50,451	13,257	+37,194	1,019,570	740,730	+278,840
1895	60,468	36,385	+24,083	47,295	20,211	+27,084	921,302	788,566	+132,736
1896	112,410	33,525	+78,885	60,542	28,777	+31,765	1,055,559	842,027	+213,532
1897	40,362	85,015	-44,653	61,947	30,533	+31,414	1,153,302	880,278	+273,024
1898	15,406	120,392	-104,986	55,105	30,928	+24,177	1,301,994	767,369	+534,625
1899	37,522	88,955	-51,433	56,319	30,675	+25,644	1,320,884	816,778	+504,106
1900	48,267	44,573	+3,694	56,712	35,256	+21,456	1,499,462	929,771	+569,691
1901	53,185	66,051	-12,866	64,285	30,387	+33,898	1,605,235	925,610	+679,625
1902	48,569	52,021	-3,452	49,732	28,232	+21,500	1,480,021	963,574	+516,447
1903	47,091	44,982	+2,109	44,250	24,163	+20,087	1,511,453	1,094,865	+416,588
1904	81,460	99,055	-17,595	49,473	27,769	+21,704	1,591,760	1,117,912	+473,848
1905	92,594	53,649	+38,945	48,849	27,485	+21,364	1,660,005	1,198,647	+461,358
1906	38,574	96,222	-57,648	65,869	44,443	+21,426	1,848,307	1,367,227	+481,080
1907	51,399	114,510	-63,111	56,739	42,947	+13,792	1,988,989	1,591,878	+397,111
1908	72,433	148,337	-75,904	57,921	44,658	+13,263	1,991,127	1,387,337	+603,790
1909	91,532	44,004	+47,528	55,683	43,955	+11,728	1,810,226	1,399,879	+410,347
1910	118,563	43,340	+75,223	55,287	45,217	+10,070	1,918,835	1,645,505	+273,330
1911	22,510	73,607	-51,097	64,750	45,937	+18,813	2,136,580	1,646,770	+489,810
1912	57,328	48,937	+8,391	64,891	47,050	+17,841	2,326,541	1,740,252	+586,289
1913	77,763	69,194	+8,569	71,614	41,269	+30,345	2,615,261	1,923,471	+691,790
1914	112,039	66,539	+45,500	54,965	30,327	+24,638	2,531,583	1,990,791	+540,792
1915	146,224	171,569	-25,345	50,942	29,110	+21,832	2,965,756	1,874,849	+1,090,907
1915 (6 mos.)	23,843	307,030	-283,187	28,750	18,742	+10,008	1,905,456	1,238,559	+666,897
1916	155,793	685,990	-530,197	70,595	32,263	+38,332	5,709,029	3,109,889	+2,599,140
1917	371,884	552,454	-180,570	84,131	53,340	+30,791	6,689,527	3,558,263	+3,131,264
1918	41,070	62,043	-20,973	252,846	71,376	+181,470	6,443,004	3,164,631	+3,278,373
1919	368,185	76,534	+291,651	239,021	89,410	+149,611	8,527,632	4,107,309	+4,420,323
1920	322,091	417,068	-94,977	113,616	88,060	+25,556	8,663,724	5,783,610	+2,880,114
1921	281,691	248,867	+32,824	51,575	63,243	-11,668	4,560,497	3,263,639	+1,296,858
1922	36,875	275,170	-238,295	62,807	70,807	-7,999	3,931,459	4,158,724	-427,265
1923	28,643	322,716	-294,073	72,469	74,454	-1,985	4,268,605	4,489,236	-220,631
1924	61,648	319,721	-258,073	109,891	73,945	+35,946	4,762,523	4,003,622	+758,901
1925	262,640	128,272	+134,367	99,128	64,596	+34,532	5,271,615	4,419,458	+852,157
1926	115,708	213,504	-97,796	92,258	69,596	+22,662	5,016,626	4,713,988	+302,638
1927	201,455	207,535	-6,080	75,625	55,074	+20,551	5,142,455	4,447,351	+695,104
1928	560,759	168,897	+391,862	87,382	68,117	+19,265	5,776,497	4,328,458	+1,448,039

<sup>1</sup> Data shown under silver are for gold and silver. These were not shown separately prior to 1825.

<sup>2</sup> Period beginning Oct. 1, 1841, and ending June 30, 1850. <sup>3</sup> Period July 1, 1915, to Dec 31, 1920.

No. 512.—SUPPLEMENT TO TABLES 510 AND 511: CALENDAR YEARS 1900 TO 1915, AND FISCAL YEARS ENDED JUNE 30, 1916 TO 1928

[All figures in thousands of dollars]

Year	Merchandise					
	Exports			General imports	Total exports and imports	Excess of exports (+) or imports (-)
	Total	U. S merchandise	Reex-ports			
1900	1,477,946	1,453,010	24,936	829,150	2,307,096	+648,796
1901	1,465,376	1,438,079	27,297	880,420	2,345,796	+584,956
1902	1,360,686	1,333,269	27,418	969,317	2,330,003	+391,369
1903	1,484,753	1,457,647	27,106	995,494	2,480,247	+489,259
1904	1,451,319	1,425,711	25,608	1,035,909	2,487,228	+415,410
1905	1,626,991	1,599,423	27,568	1,179,145	2,806,136	+447,846
1906	1,798,243	1,772,716	25,527	1,320,502	3,118,745	+477,742
1907	1,923,426	1,895,356	28,070	1,423,170	3,346,596	+500,256
1908	1,752,835	1,728,670	24,165	1,116,374	2,869,209	+636,461
1909	1,728,199	1,700,722	27,477	1,475,521	3,203,720	+252,678
1910	1,866,259	1,820,023	37,236	1,562,904	3,429,163	+303,355
1911	2,092,527	2,058,413	34,114	1,532,359	3,624,886	+560,168
1912	2,399,218	2,362,696	36,522	1,818,073	4,217,291	+581,145
1913	2,484,018	2,448,284	35,734	1,792,596	4,276,614	+691,422
1914	2,113,624	2,071,058	42,566	1,789,276	3,902,900	+324,348
1915	3,554,671	3,493,231	61,440	1,778,597	5,333,268	+1,776,074
1916	4,333,483	4,272,178	61,305	2,197,884	6,531,367	+2,135,599
1917	6,290,048	6,227,164	62,884	2,659,355	8,949,403	+3,630,693
1918	5,919,711	5,838,652	81,059	2,945,655	8,865,366	+2,974,056
1919	7,232,283	7,081,462	150,821	3,095,720	10,328,003	+4,136,563
1920	8,108,989	7,949,309	159,680	5,238,352	13,347,341	+2,870,637
1921	6,516,510	6,385,884	130,626	3,654,459	10,170,969	+2,862,051
1922	3,771,156	3,699,909	71,247	2,608,079	6,379,235	+1,163,077
1923	3,956,733	3,886,682	70,051	3,780,959	7,737,692	+175,774
1924	4,311,656	4,228,973	87,683	3,554,037	7,865,693	+757,619
1925	4,864,580	4,778,154	86,426	3,824,128	8,688,708	+1,040,452
1926	4,753,382	4,653,148	100,234	4,464,872	9,218,254	+288,509
1927	4,968,100	4,867,346	100,753	4,252,024	9,220,124	+716,076
1928	4,877,071	4,773,332	103,738	4,147,499	9,024,570	+729,572

Year	Gold			Silver			Total merchandise, gold and silver		
	Exports	Imports	Excess of exports (+) or imports (-)	Exports	Imports	Excess of exports (+) or imports (-)	Exports	Imports	Excess of exports (+) or imports (-)
1900	54,135	66,749	-12,614	66,222	40,100	+26,122	1,598,303	935,999	+662,304
1901	57,784	54,762	+3,022	55,638	31,147	+24,491	1,578,798	966,329	+612,469
1902	36,031	44,193	-8,162	49,273	26,403	+22,870	1,445,990	1,039,913	+406,077
1903	44,347	65,268	-20,921	40,610	23,975	+16,635	1,569,710	1,084,737	+484,973
1904	121,212	84,803	+36,409	50,135	26,087	+24,048	1,622,666	1,146,799	+475,867
1905	46,794	50,293	-3,499	57,513	35,939	+21,574	1,731,298	1,265,377	+465,921
1906	46,709	155,579	-108,870	60,957	44,228	+16,729	1,905,909	1,520,309	+385,600
1907	55,216	143,398	-88,182	61,626	45,912	+15,714	2,040,268	1,612,480	+427,788
1908	81,215	50,276	+30,939	51,838	42,224	+9,614	1,885,888	1,208,874	+677,014
1909	132,881	44,087	+88,794	57,592	46,188	+11,404	1,918,672	1,565,796	+352,876
1910	58,775	59,223	-448	57,361	45,878	+11,483	1,982,395	1,668,005	+314,390
1911	37,183	57,445	-20,262	55,665	43,747	+11,918	2,195,375	1,633,551	+561,824
1912	47,425	66,549	-19,124	71,962	48,401	+23,561	2,518,605	1,933,023	+585,582
1913	91,799	63,705	+28,094	62,777	35,868	+26,909	2,638,594	1,892,169	+746,425
1914	222,616	57,388	+165,228	51,603	25,959	+25,644	2,387,843	1,872,623	+515,220
1915	31,426	451,955	-420,529	53,599	34,484	+19,115	2,693,696	2,265,036	+428,660
1916	90,250	494,009	-403,759	59,792	34,154	+25,638	4,483,525	2,726,047	+1,757,478
1917	291,921	977,176	-685,255	75,280	35,004	+40,276	6,660,249	3,671,535	+2,988,714
1918	190,852	124,413	+66,439	139,181	70,328	+68,853	6,249,744	3,140,396	+3,109,348
1919	116,576	62,364	+54,212	301,175	78,825	+222,350	7,650,034	3,236,909	+4,413,125
1920	466,421	150,540	+315,881	179,037	102,900	+76,137	8,754,447	5,491,792	+3,262,655
1921	133,538	638,560	-505,022	52,536	59,431	-6,895	6,702,584	4,352,450	+2,350,134
1922	27,345	468,318	-440,973	62,695	70,684	-7,989	3,861,196	3,147,081	+714,115
1923	49,022	284,090	-235,068	55,907	64,947	-9,040	4,061,662	4,129,996	-68,334
1924	10,207	417,026	-406,819	98,786	79,940	+18,846	4,220,649	4,051,003	+169,646
1925	248,730	134,145	+114,585	108,829	71,608	+37,221	5,222,139	4,029,881	+1,192,258
1926	113,438	210,726	-97,288	97,982	69,401	+28,581	4,964,802	4,744,999	+219,802
1927	103,844	251,766	-147,921	80,881	59,605	+21,276	5,152,825	4,563,385	+589,440
1928	627,102	129,140	+497,962	79,964	59,530	+20,434	5,584,137	4,336,169	+1,247,968

# No. 513.—MERCHANDISE EXPORTS AND IMPORTS WITH TRADE BALANCES: FOR INDIVIDUAL YEARS 1790 TO 1884

NOTE.—All figures in thousands of dollars. Specie values. For later years see Table 510. Fiscal years ended Sept 30, 1790 to 1842, June 30 thereafter

Year	Ex-ports <sup>1</sup>	Im-ports <sup>1</sup>	Excess of ex-ports (+) or imports (-)	Year	Ex-ports	Im-ports	Excess of ex-ports (+) or imports (-)	Year	Ex-ports	Im-ports	Excess of ex-ports (+) or imports (-)
1790...	20,205	23,000	-2,795	1822...	61,350	79,872	-18,522	1854...	237,044	297,804	-60,760
1791...	19,012	29,200	-10,188	1823...	68,326	72,481	-4,155	1855...	218,910	257,809	-38,899
1792...	20,753	31,500	-10,747	1824...	68,972	72,169	-3,197	1856...	281,219	310,432	-29,213
1793...	26,110	31,100	-4,990	1825...	90,738	90,189	+549	1857...	293,824	348,428	-54,604
1794...	33,044	34,600	-1,556	1826...	72,891	78,094	-5,203	1858...	272,011	263,339	+8,672
1795...	47,990	69,756	-21,766	1827...	74,310	71,333	+2,977	1859...	292,902	331,333	-38,431
1796...	58,575	81,436	-22,861	1828...	64,021	81,020	-16,999	1860...	333,576	353,616	-20,040
1797...	51,295	75,379	-24,084	1829...	67,435	67,089	+346	1861...	219,554	289,311	-69,757
1798...	61,327	68,552	-7,225	1830...	71,671	62,721	+8,950	1862...	190,671	189,357	+1,314
1799...	78,666	79,069	-403	1831...	72,296	95,885	-23,589	1863...	203,964	243,336	-39,372
1800...	70,972	91,253	-20,281	1832...	81,521	95,122	-13,601	1864...	158,538	316,447	-157,909
1801...	93,021	111,364	-18,343	1833...	87,529	101,048	-13,519	1865...	166,029	238,746	-72,717
1802...	71,957	76,333	-4,376	1834...	102,260	108,610	-6,350	1866...	348,860	434,812	-85,952
1803...	55,800	64,667	-8,867	1835...	115,216	136,764	-21,548	1867...	294,506	395,761	-101,255
1804...	77,699	85,000	-7,301	1836...	124,339	176,579	-52,240	1868...	281,953	357,362	-75,408
1805...	95,566	120,600	-25,034	1837...	111,443	130,473	-19,030	1869...	286,118	417,506	-131,388
1806...	101,537	129,410	-27,873	1838...	104,979	95,970	+9,009	1870...	392,772	435,958	-43,186
1807...	108,343	138,500	-30,157	1839...	112,252	156,497	-44,245	1871...	442,820	520,242	-77,404
1808...	22,431	56,990	-34,559	1840...	123,669	98,259	+25,410	1872...	444,178	626,956	-182,778
1809...	52,203	59,400	-7,197	1841...	111,817	122,958	-11,141	1873...	522,480	642,136	-119,656
1810...	66,758	85,400	-18,642	1842...	99,878	96,075	+3,803	1874...	586,283	567,406	+18,877
1811...	61,317	53,400	+7,917	1843...	82,826	42,433	+40,393	1875...	513,443	533,005	-19,562
1812...	38,527	77,030	-38,503	1844...	105,746	102,605	+3,141	1876...	540,385	460,741	+79,644
1813...	27,850	22,005	+5,845	1845...	106,040	113,154	-7,114	1877...	602,475	451,323	+151,152
1814...	6,927	12,035	-5,108	1846...	109,583	117,914	-8,331	1878...	694,866	437,052	+257,814
1815...	52,558	113,041	-60,483	1847...	156,742	122,424	+34,318	1879...	710,439	445,778	+264,661
1816...	81,920	147,103	-65,183	1848...	138,191	148,639	-10,448	1880...	835,639	667,698	+167,941
1817...	87,672	99,250	-11,578	1849...	140,351	141,206	-855	1881...	902,377	642,665	+259,712
1818...	93,281	121,750	-28,469	1850...	144,376	173,510	-29,134	1882...	750,542	724,640	+25,902
1819...	70,143	87,125	-16,982	1851...	185,915	210,771	-24,856	1883...	823,839	723,181	+100,658
1820...	69,692	74,450	-4,758	1852...	166,984	207,440	-40,456	1884...	740,514	667,698	+72,816
1821...	54,496	54,521	-25	1853...	203,489	263,777	-60,288				

<sup>1</sup> Includes gold and silver prior to 1821.

<sup>2</sup> Period beginning Oct 1, 1842, and ending June 30, 1843.

## No. 514.—PER CAPITA EXPORTS AND IMPORTS OF MERCHANDISE

NOTE.—Export figures for 1790 to 1820 are based on total exports including reexports (the latter were then relatively large) and for 1821 to date, on exports of United States merchandise only, shown in Table 510. Import figures for 1790 to 1820 are based on general imports shown in Table 510, for 1821 to 1870, total imports less reexports, and for 1871 to date, imports for consumption, shown in Table 515

Yearly average	Ex-ports	Im-ports	Yearly average or year	Ex-ports	Im-ports	Year	Ex-ports	Im-ports	Year	Ex-ports	Im-ports
<i>Dollars Dollars</i>											
1790-1800...	9 70	12 22	1911-1915...	23 98	17 46	1895...	11 51	10 61	1912...	22 65	17 13
1801-1810...	11 82	14 71	1916-1920...	61 21	31 37	1896...	12 29	10 82	1913...	24 97	18 17
1811-1820...	6 96	9 53	1921-1925...	37 97	30 15	1897...	14 43	11 03	1914...	23 61	19 32
1821-1830...	4 71	5 02	1881...	17 37	12 78	1898...	16 62	8 06	1915...	27 13	16 46
1831-1840...	5 85	6 91	1882...	14 05	13 74	1899...	16 24	9 24	1916...	53 01	23 06
1841-1850...	5 67	5 60	1883...	15 04	13 12	1900...	18 17	11 01	1917...	59 43	28 14
1851-1860...	8 48	9 78	1884...	13 24	12 20	1901...	18 69	10 34	1918...	57 51	28 06
1861-1865...	5 11	7 15	1885...	12 97	10 34	1902...	16 99	11 28	1919...	72 69	35 90
1866-1870...	8 35	10 73	1886...	11 62	10 89	1903...	17 10	12 38	1920...	74 79	47 22
1871-1875...	11 70	13 55	1887...	12 00	11 60	1904...	17 28	11 82	1921...	39 77	23 22
1876-1880...	14 01	10 18	1888...	11 43	11 81	1905...	17 62	12 84	1922...	33 75	27 55
1881-1885...	14 49	12 40	1889...	11 95	12 02	1906...	19 90	14 06	1923...	36 08	32 91
1886-1890...	12 12	11 73	1890...	13 54	12 27	1907...	21 08	16 09	1924...	38 96	30 97
1891-1895...	13 21	11 59	1891...	13 69	13 27	1908...	20 48	13 21	1925...	41 14	35 66
1896-1900...	15 60	10 03	1892...	15 62	12 37	1909...	17 96	14 05	1926...	39 62	37 07
1901-1905...	17 53	11 75	1893...	12 53	12 56	1910...	18 41	16 66	1927...	39 62	34 57
1906-1910...	19 54	14 82	1894...	12 85	9 32	1911...	21 34	16 19	1928...	41 20	33 47

## No. 515.—IMPORTS ENTERED FOR CONSUMPTION AND DUTIES THEREON

NOTE.—From 1821 to 1865, inclusive, the figures of import values represent total imports less reexports, and for 1870 and later years imports entered for consumption. The ratio prior to 1860 is based upon the values of total imports, since the duties as calculated for those years include the duties afterwards refunded upon reexports. Figures cover fiscal years ended Sept. 30, 1821 to 1840, and June 30, 1850 to 1915, calendar years thereafter.

Yearly average or year	Values				Duties	Ratio of duties to total		Amount of duties per capita
	Total	Free	Dutiable	Per cent free		Free and dutiable	Dutiable	
	1,000 dollars	1,000 dollars	1,000 dollars		1,000 dollars	Per cent	Per cent	Dollars
1821-1830	56,749	3,325	53,424	5.86	26,282	46.31	49.20	2.32
1831-1840	104,139	39,680	64,459	38.10	24,509	23.53	38.02	1.63
1841-1850	110,561	20,347	90,214	18.40	26,735	24.18	29.64	1.32
1851-1860	267,871	40,885	227,986	15.19	54,511	20.35	23.99	1.99
1861-1865	237,526	45,110	192,716	18.97	65,275	27.45	33.87	1.96
1866-1870	393,447	26,242	367,205	6.67	174,809	44.43	47.61	4.75
1871-1875	563,234	112,458	450,776	19.97	183,014	32.49	40.60	4.40
1876-1880	482,071	154,501	327,570	32.05	143,388	29.74	43.77	3.03
1881-1885	663,128	204,673	458,455	30.86	197,801	29.83	43.15	3.70
1886-1890	702,234	237,299	464,935	33.80	213,358	30.38	45.89	3.56
1891-1895	768,756	401,921	366,835	52.29	173,832	22.61	47.39	2.62
1896-1900	730,411	341,753	388,658	46.79	181,328	24.83	46.65	2.49
1901-1905	956,891	428,830	528,061	44.81	256,469	26.80	48.57	3.15
1906-1910	1,328,137	615,416	712,721	46.34	305,440	23.00	42.86	3.41
1911-1915	1,698,028	966,141	731,887	56.89	283,408	16.69	38.72	2.91
1915-1920 <sup>1</sup>	3,288,839	2,262,412	1,026,427	68.79	227,035	6.90	22.08	2.17
1921-1925	3,422,748	2,088,932	1,333,816	61.03	478,911	13.99	35.90	4.22
1894	667,751	211,089	456,662	31.61	190,282	28.50	41.67	3.48
1895	579,835	192,443	386,892	33.22	178,151	30.75	46.05	3.18
1896	624,049	210,271	413,778	33.69	189,410	30.35	45.78	3.31
1897	679,644	229,819	450,325	33.74	214,222	31.52	47.57	3.66
1898	707,091	238,947	468,144	33.78	216,042	30.55	46.15	3.61
1899	734,681	249,524	484,857	34.05	220,576	30.02	45.49	3.61
1890	768,708	258,137	507,571	33.71	226,540	29.59	44.63	3.63
1891	845,483	379,028	466,455	44.83	216,885	25.65	46.50	3.40
1892	804,297	448,771	355,526	55.78	174,124	21.65	48.98	2.68
1893	832,732	432,450	400,282	51.93	199,143	23.91	49.75	3.00
1894	630,107	372,462	257,645	59.11	129,558	20.56	50.29	1.92
1895	731,162	376,890	354,272	51.55	149,460	20.44	42.19	2.17
1896	759,694	368,897	390,797	48.56	157,013	20.67	40.18	2.24
1897	789,251	381,902	407,349	48.39	172,760	21.89	42.41	2.41
1898	587,153	291,534	295,619	49.65	145,438	24.77	49.20	2.00
1899	685,441	299,669	385,772	43.72	202,072	29.48	52.38	2.73
1900	830,519	366,760	463,759	44.16	229,360	27.02	49.46	3.04
1901	807,763	339,093	468,670	41.98	233,556	28.91	49.83	2.99
1902	899,793	396,542	503,251	44.01	251,453	27.95	49.97	3.15
1903	1,007,960	437,291	570,669	43.38	280,752	27.85	49.20	3.45
1904	981,822	454,153	527,669	46.26	258,161	26.29	48.92	3.11
1905	1,087,118	517,073	570,045	47.56	258,426	23.77	45.33	3.05
1906	1,213,417	548,695	664,722	45.22	293,910	24.22	44.22	3.40
1907	1,415,402	641,953	773,449	45.35	329,480	23.28	42.00	3.76
1908	1,183,120	525,704	657,416	44.43	282,582	23.85	42.98	3.15
1909	1,281,641	599,376	682,265	46.77	294,067	22.99	43.19	3.25
1910	1,547,109	761,353	785,756	49.21	326,561	21.11	41.56	3.52
1911	1,527,945	776,964	750,981	50.85	309,965	20.29	41.27	3.28
1912	1,640,722	881,513	759,209	53.73	304,899	18.58	40.16	3.18
1913	1,766,689	986,972	779,717	55.87	312,509	17.69	40.08	3.21
1914	1,906,400	1,152,392	754,008	60.45	283,719	14.88	37.63	2.87
1915	1,648,386	1,032,863	615,523	62.66	205,946	12.49	33.46	2.06
1915 (6 mos.)	934,675	631,384	303,291	67.56	95,858	10.26	31.61	.95
1916	2,353,612	1,614,842	738,770	68.47	214,214	9.10	28.80	2.09
1917	2,619,291	2,140,947	778,344	73.34	204,585	7.01	26.28	1.97
1918	2,951,531	2,228,675	722,856	75.51	170,984	5.79	23.65	1.63
1919	3,827,683	2,711,462	1,116,221	70.84	237,456	6.20	21.27	2.23
1920	5,101,823	3,115,958	1,985,865	61.08	325,646	6.38	16.40	3.01
1921	2,556,869	1,564,278	992,591	61.18	292,397	11.44	29.46	2.66
1922	3,073,773	1,888,240	1,185,533	61.43	451,356	14.68	38.07	4.06
1923	3,731,769	2,165,148	1,566,621	58.02	566,664	15.18	36.17	5.00
1924	3,575,111	2,118,168	1,456,943	59.25	532,286	14.89	36.53	4.61
1925	4,176,218	2,708,828	1,467,391	64.87	551,853	13.21	37.61	4.71
1926	4,408,076	2,908,107	1,499,969	65.97	590,045	13.39	39.34	4.96
1927	4,163,090	2,680,059	1,483,031	64.38	574,839	13.81	38.76	4.77
1928	4,077,937	2,678,633	1,399,304	65.68	542,270	13.30	38.76	4.45

<sup>1</sup> Period July 1, 1915, to Dec. 31, 1920.



# No. 516.—PERCENTAGE DISTRIBUTION OF EXPORTS AND IMPORTS OF MERCHANDISE, BY ECONOMIC CLASSES

NOTE—Percentages are based on figures shown in Table 517

Year or yearly average	Per cent of total exports of United States merchandise					Per cent of total general imports				
	Crude materials	Crude food-stuffs	Manufactured food-stuffs	Semi-manufactures	Finished manufactures	Crude materials	Crude food-stuffs	Manufactured food-stuffs	Semi-manufactures	Finished manufactures
1821.....	60 62	4 79	19 51	9 42	5 66	4 66	11 15	19 85	7 48	56.86
1830.....	62.65	4.65	16.32	7.04	9 34	7 65	11 77	15 39	8 22	56.97
1840.....	67 83	4.09	14 27	4 34	9 47	12.36	15 54	15.46	11.56	45.09
1850.....	62 36	5 59	14 84	4 49	12.72	7 24	10 38	12 37	14 08	54.98
1851-1860.....	61 67	6 61	15.39	4.01	12.32	9 63	11 70	15 43	12.50	50 74
1861-1865.....	19.97	22 13	34 42	5 69	17 78	14 12	14 29	17 47	13 60	40 62
1866-1870.....	57.62	9.05	13 75	4.68	14 89	11 71	13 23	19.93	13.87	41 26
1871-1875.....	44.94	15 47	19 69	4.67	15 33	16 12	14.12	20 07	13.56	39 27
1876-1880.....	32.24	23 93	24.39	4.55	14 87	18 55	18 56	21 49	12 45	29.35
1881-1885.....	33.78	21 00	25 50	4.78	14 94	19 98	14 90	19.15	13 73	32 25
1886-1890.....	38.13	14.98	25 01	5 52	16 36	22 65	15 77	16 49	15 76	29.33
1891-1895.....	33.67	17 21	27 22	6 32	15 57	23 59	18 66	17 92	14.37	25 45
1896-1900.....	26.11	18.90	24.01	9.64	21.33	29 47	15.08	15 93	13 35	26 17
1901-1905.....	30 27	12 19	22.16	11 30	24 07	33 38	12 92	12 36	16 65	21 69
1906-1910.....	31.68	8 90	18 12	14 23	27 07	34 56	10 98	11 80	17 82	24 84
1911-1915.....	30.74	8.83	14 32	15 41	30 70	34 91	12 80	12 56	17.37	22 36
1915-1920 <sup>1</sup> .....	18.22	9 16	17 66	15 39	39 58	40 13	12.15	16.21	17.10	14 40
1921-1925.....	27.54	9.74	13.93	12 45	36 33	37 40	11 09	12.99	17.66	20.86
1910-1914.....	33.48	5 94	13.84	16 03	30 71	35 23	12 03	11 50	18 18	23 05
1915-1919 <sup>2</sup> .....	16.13	9.62	18.09	16.67	39.47	41 33	12 43	14 14	17.64	14 50
1884.....	33.64	17 99	26 86	5 21	16 30	19 69	15 43	19 59	14 18	31 12
1885.....	34.58	16.97	27.77	5.42	15 25	20 86	16.16	17 82	13 55	31.61
1886.....	38 58	15 13	24 43	5 11	16 76	22 78	14.41	17 75	14 40	30 65
1887.....	35.94	17.85	25 00	5.22	15 99	21.86	15 36	16 14	17.34	29 29
1888.....	40 00	12 63	24 84	5 88	16 65	22 65	16 03	15 34	16 80	20 17
1889.....	39 85	13 54	23 90	5 85	16 87	23 11	16 53	16 41	15 44	28 52
1890.....	36.61	15 62	26 59	5 50	15 68	22 79	16 28	16 89	14 81	29 23
1891.....	40.28	12 17	25 96	5 49	16 09	22 79	17 83	17 48	16 15	25 75
1892.....	31.48	25 84	24 66	4.95	13 07	23 54	21 22	16 89	13 63	24 72
1893.....	30.28	18 43	29 73	5 94	15 63	25 00	15 19	17 75	15 65	26 40
1894.....	32.60	15 30	28 77	7.72	15.61	20 56	20 35	23 72	12 65	22 72
1895.....	33.94	12.50	27 61	7 85	18 10	25 62	19.31	14 63	13 18	27 26
1896.....	29.80	14 90	25 41	8 85	21 04	26 06	16 67	15 24	12 96	29 07
1897.....	29.49	17 58	22 79	9 52	20 63	26 25	16 79	16 90	11 57	28.48
1898.....	24.44	25 21	23 54	8.43	18 38	31.44	16 88	13 97	12 88	24 84
1899.....	23.75	19 35	25 31	9.78	21.81	30.60	14 19	17.71	13 19	24 32
1900.....	24.81	16.48	23 32	11.18	24.20	33.14	11.52	15.65	15.79	23.90
1901.....	28.17	16 83	23 09	10 16	21.76	30.88	13.43	15 25	15 49	24.96
1902.....	28.60	13 63	24 26	9 75	23 75	34 13	13.31	10 56	16 34	25.62
1903.....	29.85	13 31	23 22	10 10	23 52	32.80	11 62	11 37	19 08	25 13
1904.....	32.54	9 46	21 52	12 19	24 30	33 05	13 34	11 93	16 17	25.51
1905.....	32.08	7.92	18 97	14.07	26 96	35 42	13 08	13 01	15 91	22.58
1906.....	29.53	10 32	20 22	13 17	26 76	34 55	10 95	11 44	17 96	25 10
1907.....	32.40	9 03	18 65	14 60	25 63	34 00	10 44	11.06	19 11	25 39
1908.....	30 70	10 30	18 10	14 23	26.68	31 31	12 19	12 81	16 43	27 77
1909.....	32.27	8 28	18 47	14.11	26 87	35 13	12 51	12 63	16 94	22 80
1910.....	33.57	6 42	15 16	15 66	29.19	37 11	9 30	11 66	18 31	23.62
1911.....	35.79	5 13	14 01	15 35	29.72	34 36	11 87	11 26	18 84	23.67
1912.....	33 69	4 60	14 69	16 94	30 93	34 66	13 93	11 86	17.77	21 78
1913.....	30.45	7 49	13 23	16 53	31 97	35 82	11 68	10 72	19 27	22 51
1914.....	34 33	5 90	12 59	16 06	31 11	34 31	13 09	12 02	16 86	23 72
1915.....	21.77	18.66	16.74	13 10	29.73	35.33	13.38	17.07	14.17	20.04
1915 (6 mos).....	16.66	8 67	16.08	14.72	43 87	41 46	14.29	12.43	15.75	16.08
1916.....	15 04	7 76	11 95	16.82	48 43	43 04	10 88	14 13	17 45	14 46
1917.....	13 50	8 28	13.08	21.39	43 77	43.56	13 07	11 90	18 18	13 28
1918.....	16.07	9.05	23 25	17 41	34 22	40 70	11.41	13.12	21.43	13 34
1919.....	20 94	8 75	25 32	11 90	33 08	43 57	13 97	14 23	15.60	12 64
1920.....	23 30	11.36	13 82	11 86	39.66	33 79	10 94	23.46	15 20	16.61
1921.....	22.46	15 38	15 66	9 38	37 12	34 23	11 96	14 68	14 41	24.71
1922.....	26 25	12 18	15 62	11 63	34 32	37 91	10 59	12 44	17 76	21.30
1923.....	29 54	6 29	14 26	13 78	36 12	37 10	9 58	13 98	19 00	20.34
1924.....	29 63	8 73	12 75	13 57	35.32	34 86	11 77	14 45	18 17	20 76
1925.....	29.51	6.60	11 90	13.73	38 26	41 36	11.71	10 24	17 87	18.83
1926.....	26 77	7 11	10 67	13.91	41.54	40 47	12 18	9 42	18 15	19 78
1927.....	25 07	8 85	9 74	14 70	41.64	38.25	12.06	10.77	17 92	21.00
1928.....	25 71	5 86	9 26	14 24	44 93	35 85	13 44	9 91	18 65	22 15

<sup>1</sup> Period July 1, 1915, to Dec. 31, 1920.<sup>2</sup> Fiscal years.

## No. 517.—EXPORTS OF UNITED STATES MERCHANDISE

NOTE.—All figures in thousands of dollars. Merchandise only, specie values Figures cover fiscal years covered by each class see Annual Commerce and Navigation of the United States Owing to the special also shown

Yearly average or year	Exports of United States merchandise					
	Total	Crude materials	Crude foodstuffs	Manufactured foodstuffs	Semi-manufactures	Finished manufactures
1821	51,684	31,332	2,475	10,085	4,867	2,925
1830	58,525	36,665	2,724	9,557	4,118	5,462
1840	111,661	75,735	4,565	15,936	4,841	10,584
1850	134,900	84,124	7,536	20,017	6,061	17,162
1851-1860	232,149	143,156	15,337	35,734	9,317	28,605
1861-1865	170,198	33,990	37,670	58,585	9,686	30,267
1866-1870	307,696	177,296	27,858	42,306	14,408	45,828
1871-1875	486,128	218,449	75,206	95,282	22,681	74,509
1876-1880	663,650	213,989	158,853	161,915	30,174	98,719
1881-1885	774,607	261,645	162,714	197,457	37,044	115,747
1886-1890	725,685	276,703	108,708	181,521	40,023	118,730
1891-1895	876,328	295,087	150,846	238,580	55,343	136,470
1896-1900	1,136,039	296,664	214,778	272,759	109,500	242,338
1901-1905	1,427,020	432,027	173,972	316,226	161,206	343,589
1906-1910	1,750,980	554,754	155,828	317,374	249,134	473,890
1911-1915	2,331,648	716,637	205,939	333,971	359,239	715,861
1915-1920 <sup>1</sup>	6,416,513	1,168,995	587,588	1,133,226	987,185	2,539,520
1921-1925	4,310,221	1,187,056	420,002	600,710	536,793	1,665,660
1910-1914	2,130,429	713,184	126,506	294,908	341,620	654,211
1915-1919 <sup>1</sup>	5,227,127	843,258	502,763	945,729	871,731	2,063,646
1884	724,965	243,892	130,396	194,703	37,801	118,173
1885	726,683	251,299	123,327	201,801	39,437	110,819
1886	665,965	256,811	100,800	162,689	34,038	111,627
1887	703,023	252,634	125,454	175,785	36,732	112,418
1888	683,862	273,553	86,368	169,872	40,176	113,893
1889	730,282	291,034	98,847	174,504	42,713	123,184
1890	845,294	309,482	132,073	224,757	46,455	132,527
1891	872,270	351,355	106,156	226,448	47,961	140,350
1892	1,015,732	319,781	262,456	250,439	50,284	132,792
1893	831,031	251,669	153,278	247,075	49,071	129,938
1894	869,205	283,357	133,197	249,846	67,145	135,659
1895	793,393	269,294	99,145	219,090	62,284	143,610
1896	863,201	257,227	128,551	219,413	76,220	181,789
1897	1,032,008	304,291	181,421	235,052	98,284	212,959
1898	1,210,292	295,775	305,109	284,880	101,991	222,537
1899	1,203,931	285,887	232,903	304,755	117,730	262,657
1900	1,370,764	340,139	225,906	319,696	153,276	331,747
1901	1,460,463	411,377	245,836	337,153	148,351	317,746
1902	1,355,482	387,711	184,786	328,832	132,206	321,947
1903	1,392,232	415,643	185,308	323,245	140,667	327,469
1904	1,435,179	466,984	135,747	308,836	174,877	348,735
1905	1,491,745	478,518	118,185	283,065	209,926	402,050
1906	1,717,954	507,328	177,216	347,385	226,211	459,813
1907	1,853,718	600,540	167,348	345,707	259,442	480,681
1908	1,834,786	563,197	189,052	331,962	261,106	489,470
1909	1,638,356	528,691	135,694	302,555	23,144	440,272
1910	1,710,084	574,015	109,828	259,260	267,766	499,215
1911	2,013,549	720,611	103,402	282,017	309,152	598,368
1912	2,170,320	731,164	99,899	318,839	348,150	672,268
1913	2,428,566	740,290	181,907	321,204	408,807	776,297
1914	2,329,684	799,838	137,495	293,219	374,224	724,908
1915	2,716,178	691,282	506,993	464,755	355,862	807,466
1915 (6 mos.)	1,820,393	303,228	157,897	292,720	268,002	798,546
1916	5,422,642	815,693	421,284	648,039	912,262	2,625,364
1917	6,169,617	832,827	508,762	806,941	1,315,242	2,705,845
1918	6,047,875	972,107	547,436	1,405,820	1,053,270	2,069,242
1919	7,749,816	1,623,085	678,363	1,962,616	922,246	2,563,505
1920	8,080,481	1,882,530	917,991	1,116,605	958,497	3,204,558
1921	4,378,928	983,553	673,334	685,025	410,167	1,626,849
1922	3,765,091	988,456	458,611	587,987	437,730	1,292,307
1923	4,090,715	1,208,468	257,478	583,292	563,718	1,477,759
1924	4,497,649	1,332,746	392,691	573,492	610,668	1,588,052
1925	4,813,722	1,422,058	317,894	573,753	661,683	1,843,334
1926	4,711,721	1,261,325	335,063	503,005	655,547	1,956,781
1927	4,758,864	1,192,776	421,107	463,299	699,727	1,981,955
1928	5,030,099	1,293,257	294,677	465,811	716,352	2,260,002

<sup>1</sup> Period July 1, 1915, to Dec. 31, 1920.

## AND GENERAL IMPORTS, BY ECONOMIC CLASSES

ended Sept. 30, 1790 to 1842, and June 30, 1843 to 1915; calendar thereafter, except as noted. For articles influence of the war on the character of our trade, averages for the fiscal years 1910-1914 and 1915-1919 are

Imports						Yearly average or year
Total	Crude materials	Crude foodstuffs	Manu- factured foodstuffs	Semimanu- factures	Finished manu- factures	
54,521	2,540	6,081	10,821	4,079	30,999	1821.
62,721	4,797	7,382	9,654	5,152	35,735	1830.
98,259	12,140	15,274	15,189	11,356	44,300	1840.
173,510	12,566	18,012	21,466	26,163	95,313	1850.
284,475	27,394	33,286	43,904	35,659	144,332	1851-1860.
255,439	36,064	36,504	44,613	34,744	103,514	1861-1865.
408,294	47,814	54,018	81,381	56,632	168,449	1866-1870.
577,873	93,182	81,602	115,960	78,360	208,769	1871-1875.
492,570	91,353	89,461	105,865	61,318	144,573	1876-1880.
667,142	133,268	99,376	127,732	91,625	215,141	1881-1885.
717,231	162,436	113,130	118,224	113,045	210,396	1886-1890.
785,137	185,222	146,510	140,726	112,833	199,846	1891-1895.
741,519	218,517	111,843	118,124	99,005	194,030	1896-1900.
972,162	324,508	125,644	120,218	161,809	239,983	1901-1905.
1,344,838	464,809	147,706	158,658	239,577	334,088	1906-1910.
1,712,319	597,701	219,035	215,144	297,476	382,963	1911-1915.
3,358,354	1,347,667	408,152	544,549	574,421	483,566	1915-1920 <sup>1</sup>
3,450,103	1,290,375	382,539	448,089	609,225	719,875	1921-1925.
1,688,874	594,957	203,205	194,312	307,068	389,332	1910-1914.
2,514,557	1,039,366	312,059	355,305	448,647	364,180	1915-1919. <sup>2</sup>
667,698	131,439	103,011	130,778	94,698	207,771	1884.
577,527	120,446	93,346	102,938	78,255	182,543	1885.
635,436	144,745	91,589	112,771	91,539	194,792	1886.
692,320	151,363	106,362	111,715	120,080	202,800	1887.
723,957	163,998	116,087	111,048	121,605	211,219	1888.
745,132	172,184	123,131	122,254	115,080	212,483	1889.
789,310	179,889	128,480	133,332	116,924	230,686	1890.
844,916	192,531	150,639	147,722	136,446	217,578	1891.
827,402	184,776	175,559	139,795	112,729	204,544	1892.
865,401	216,624	131,664	153,739	135,609	228,765	1893.
654,995	134,643	133,310	155,349	82,895	148,798	1894.
731,970	187,537	141,377	107,026	96,487	199,543	1895.
779,725	203,205	130,002	118,806	101,071	226,640	1896.
764,730	200,771	128,380	129,245	88,490	217,844	1897.
616,050	193,660	103,985	86,091	79,289	153,025	1898.
697,148	213,297	98,933	123,448	91,954	169,516	1899.
849,941	281,649	97,916	133,028	134,222	208,126	1900.
823,172	254,164	110,385	125,541	127,577	205,505	1901.
903,321	308,613	120,280	95,350	147,656	231,421	1902.
1,025,719	336,388	119,203	116,620	195,751	257,757	1903.
991,087	327,549	132,224	118,223	160,234	252,858	1904.
1,117,513	395,826	146,131	145,356	177,828	252,372	1905.
1,226,562	423,789	134,315	140,358	220,299	307,801	1906.
1,434,421	487,728	149,748	158,656	274,096	364,193	1907.
1,194,342	373,889	145,578	147,009	196,248	331,618	1908.
1,311,920	460,901	164,111	165,701	222,102	299,106	1909.
1,566,947	577,743	144,777	181,566	285,138	367,723	1910.
1,527,226	524,817	181,195	172,006	287,786	361,422	1911.
1,633,265	573,048	230,358	196,101	293,739	360,019	1912.
1,813,008	649,438	211,747	194,243	349,402	408,179	1913.
1,893,926	649,740	247,948	227,644	319,276	449,318	1914.
1,674,170	591,462	223,930	285,725	237,176	335,877	1915.
912,787	378,446	130,398	113,441	143,752	146,750	1915 (6 mos.).
2,391,635	1,029,358	260,132	338,707	417,860	345,578	1916.
2,952,468	1,286,079	385,725	351,553	536,663	392,448	1917.
3,031,213	1,233,697	345,653	397,370	649,585	404,908	1918.
3,904,365	1,701,057	545,301	555,808	608,996	493,203	1919.
5,278,481	1,783,534	577,627	1,238,139	802,456	876,725	1920.
2,509,148	858,858	300,181	368,811	361,747	620,051	1921.
3,112,747	1,179,894	329,809	387,419	552,677	662,947	1922.
3,792,066	1,406,797	363,032	530,208	720,729	771,300	1923.
3,609,963	1,258,256	424,873	521,600	655,888	749,346	1924.
4,226,589	1,748,065	494,800	432,906	755,085	795,733	1925.
4,430,888	1,792,292	539,818	417,817	804,333	876,628	1926.
4,154,742	1,600,809	504,686	450,849	749,801	878,597	1927.
4,091,444	1,466,734	549,892	405,814	762,831	906,173	1928.

<sup>1</sup> Fiscal years.

## No. 518.—GENERAL IMPORTS, FREE AND DUTIABLE,

NOTE.—All figures in thousands of dollars. Merchandise only, specie values. Figures cover fiscal percentage free in general imports is normally slightly lower than in imports for consumption because imports. Moreover, since 1922, there is an understatement of the free goods in general imports,

Year or yearly average	Total			Crude materials			Crude foodstuffs and food animals		
	Free	Dutiable	Percent free	Free	Duti- able	Percent free	Free	Duti- able	Percent free
1821-----	2, 018	52, 504	3 7	1, 475	1, 066	58 1	6, 082	-----	-----
1830-----	4, 590	58, 131	7 3	3, 348	1, 450	69.8	7, 882	-----	-----
1840-----	48, 314	49, 946	49 2	9, 780	2, 360	80 6	15, 214	60	99 6
1850-----	18, 082	155, 428	10 4	602	11, 954	4 8	15, 803	2, 208	87 7
1851-1860-----	44, 730	239, 745	15 7	6, 455	20, 938	23 6	30, 165	3, 121	90 6
1861-1865-----	48, 948	206, 491	19 2	10, 759	25, 305	29 8	17, 365	19, 140	47 6
1866-1870-----	27, 828	380, 467	6 8	9, 910	37, 904	20 7	4, 443	49, 575	8 2
1871-1875-----	105, 286	472, 587	18 2	48, 082	45, 100	51 6	45, 026	36, 576	55 2
1876-1880-----	154, 683	337, 887	31 4	60, 902	30, 450	66 7	74, 806	14, 654	83 6
1881-1885-----	204, 735	462, 407	30 7	91, 384	41, 884	68 6	76, 513	22, 864	77 0
1886-1890-----	242, 521	474, 710	33 8	104, 961	57, 475	64 6	90, 035	23, 095	79 6
1891-1895-----	402, 363	382, 774	51 2	143, 613	41, 610	77 5	124, 808	21, 702	85 2
1896-1900-----	342, 125	399, 394	46 1	177, 049	40, 808	81 3	88, 359	28, 484	79 0
1901-1905-----	426, 836	545, 326	43 9	243, 319	81, 189	75 0	98, 921	26, 723	78 7
1906-1910-----	614, 825	730, 013	45 7	348, 061	116, 749	74 9	120, 233	27, 473	81 4
1911-1915-----	961, 439	750, 880	56 1	491, 948	105, 753	82 3	181, 170	37, 865	82 7
1915-1920 <sup>1</sup> -----	2, 258, 608	1, 099, 747	67 3	1, 195, 598	152, 074	88 7	349, 926	58, 226	85 7
1921-1925-----	2, 060, 303	1, 389, 800	59 7	1, 086, 581	253, 794	80 3	302, 242	80, 297	79 0
1910-1914-----	905, 796	783, 078	53 6	477, 381	117, 626	80 2	164, 554	38, 651	81 0
1915-1919 <sup>2</sup> -----	1, 744, 767	769, 789	69 4	925, 417	113, 949	53 0	263, 025	49, 033	84 3
1884-----	209, 884	457, 814	31 4	87, 698	43, 740	66 7	80, 592	22, 419	78 2
1885-----	193, 213	384, 314	33 5	79, 242	41, 205	65 8	73, 323	20, 022	78 5
1886-----	212, 159	423, 277	33 4	97, 600	47, 146	67 4	71, 204	20, 384	77 7
1887-----	224, 221	458, 099	33 8	100, 459	50, 904	66 4	84, 826	21, 636	79 8
1888-----	244, 072	479, 885	33 7	107, 043	56, 955	65 3	87, 121	28, 966	75 0
1889-----	256, 487	488, 645	34 4	107, 210	64, 074	62 3	100, 507	22, 624	81 6
1890-----	265, 668	523, 642	33 7	112, 495	67, 394	62 5	106, 515	21, 965	82 9
1891-----	366, 241	478, 675	43 3	139, 855	52, 676	72 6	126, 337	24, 302	83 9
1892-----	457, 999	369, 403	55 4	149, 159	45, 616	76 6	155, 831	19, 728	88 8
1893-----	444, 544	421, 857	51 3	165, 928	50, 697	76 6	106, 769	24, 895	81 1
1894-----	379, 796	275, 199	58 0	106, 654	27, 989	79 2	114, 255	19, 054	85 7
1895-----	363, 234	368, 736	49 6	156, 404	31, 073	83 4	120, 847	20, 580	85 5
1896-----	369, 758	409, 967	47 4	176, 657	26, 549	86 9	108, 891	21, 111	83 8
1897-----	381, 938	382, 792	49 9	182, 775	17, 996	91 0	108, 089	20, 291	84 2
1898-----	291, 414	324, 636	47 3	147, 341	46, 319	76 1	86, 145	17, 840	82 8
1899-----	300, 280	396, 868	43 1	168, 653	44, 643	79 1	95, 948	28, 985	70 7
1900-----	367, 237	482, 704	43 2	212, 820	68, 829	75 6	68, 722	29, 494	70 2
1901-----	339, 609	483, 503	41 3	191, 155	63, 009	75 2	80, 961	29, 424	73 3
1902-----	396, 810	506, 502	43 9	233, 242	75, 371	75 6	90, 287	29, 693	75 1
1903-----	426, 181	599, 538	41 6	249, 276	87, 112	74 1	86, 622	32, 581	72 7
1904-----	454, 130	536, 957	45 8	249, 098	77, 552	76 3	110, 481	21, 742	83 6
1905-----	517, 442	600, 071	46 3	292, 921	102, 905	71 5	126, 254	19, 877	86 4
1906-----	549, 624	676, 938	44 8	312, 290	111, 499	73 7	114, 305	20, 010	85 1
1907-----	644, 030	790, 391	44 9	366, 164	121, 504	75 1	125, 047	24, 701	83 5
1908-----	525, 603	668, 739	44 0	282, 943	90, 946	75 7	116, 510	29, 068	80 0
1909-----	599, 557	712, 363	45 7	334, 957	125, 944	72 7	131, 621	32, 490	80 2
1910-----	755, 311	801, 636	48 5	443, 951	133, 792	76 8	113, 681	31, 096	78 5
1911-----	776, 972	750, 254	50 9	409, 671	115, 145	78 1	147, 262	33, 932	81 3
1912-----	881, 671	771, 594	53 3	453, 931	119, 117	79 2	180, 127	50, 231	78 2
1913-----	987, 524	825, 484	54 5	519, 103	130, 334	79 9	179, 829	31, 917	84 9
1914-----	1, 127, 503	766, 423	59 5	560, 000	89, 740	86 2	201, 868	46, 080	81 4
1915-----	1, 033, 527	640, 643	61 7	517, 034	74, 428	87 4	196, 763	27, 167	87 9
1915 (6 mos.)-----	628, 887	283, 950	68 9	332, 105	46, 340	87 8	113, 550	16, 849	87 1
1916-----	1, 611, 887	779, 748	67 4	922, 045	107, 312	89 6	216, 570	43, 562	83 3
1917-----	2, 135, 552	816, 916	72 3	1, 169, 041	117, 038	90 9	316, 965	68, 759	82 2
1918-----	2, 230, 353	800, 860	73 6	1, 092, 837	140, 860	88 6	235, 525	62, 113	82 0
1919-----	2, 698, 708	1, 205, 662	69 1	1, 508, 164	192, 894	88 7	480, 856	64, 444	88 2
1920-----	3, 117, 010	2, 161, 471	59 1	1, 551, 570	231, 964	87 0	513, 117	64, 610	88 8
1921-----	1, 562, 292	946, 856	62 3	750, 640	108, 219	87 4	253, 703	46, 477	84 5
1922 <sup>2</sup> -----	1, 871, 917	1, 240, 880	60 1	963, 150	216, 744	81 6	249, 600	80, 209	75 7
1923 <sup>2</sup> -----	2, 135, 942	1, 056, 124	56 3	1, 091, 393	315, 404	77 6	279, 222	83, 810	76 9
1924 <sup>2</sup> -----	2, 080, 096	1, 529, 867	57 6	977, 635	280, 621	77 7	335, 741	89, 132	79 0
1925 <sup>2</sup> -----	2, 651, 266	1, 575, 322	62 7	1, 400, 083	347, 982	80 1	392, 942	101, 658	79 4
1926 <sup>2</sup> -----	2, 883, 411	1, 577, 477	64 4	1, 483, 772	308, 520	82 8	438, 594	101, 221	81 2
1927 <sup>2</sup> -----	2, 621, 873	1, 562, 869	62 7	1, 315, 237	285, 572	82 2	392, 971	111, 715	77 9
1928 <sup>2</sup> -----	2, 616, 239	1, 475, 205	63 9	1, 222, 411	244, 323	83 3	431, 587	118, 305	78 5

<sup>1</sup> Period July 1, 1915, to Dec. 31, 1920.<sup>2</sup> Fiscal years.

## AND PER CENT FREE, BY ECONOMIC CLASSES

years ended Sept. 30, 1821 to 1842, and June 30, 1843 to 1915, calendar thereafter, except as noted. The relatively more of the dutiable general imports are reported as reexported than of the free general resulting from the facts set forth in Table 519

Manufactured foodstuffs			Semimanufactures			Finished manufactures			Year or yearly aver- age
Free	Dutiable	Percent free	Free	Dutiable	Percent free	Free	Dutiable	Percent free	
-----	10,821	-----	488	3,591	12 0	55	30,944	0.2	1821.
	9,054		1,211	3,942	23 5	31	35,703		1830.
1,021	14,168	6.7	4,962	6,394	43 7	17,337	26,963	39 1	1840.
	21,466		764	25,399	2.9	911	94,401	1 0	1850.
2,426	41,477	5 5	3,419	32,140	9 6	2,265	142,067	1.6	1851-1860.
4,671	39,942	10 5	7,980	26,764	23 0	8,173	95,341	7.9	1861-1865.
1,847	79,534	2.3	6,722	49,910	11.9	4,906	163,543	2.9	1866-1870
	115,589		6,255	72,105	8 0	5,552	203,216	2.7	1871-1875.
371	102,621	3 1	9,114	52,204	14 9	5,616	137,967	4.6	1876-1880
3,244	113,493	7.2	15,209	76,416	16 6	12,389	202,751	5 8	1881-1885.
9,240	104,560	11.6	19,175	93,870	17 0	14,686	195,709	7 0	1886-1890.
13,664	45,649	65.4	25,614	87,219	22.7	16,251	183,694	8 1	1891-1895
92,078	99,173	16.0	34,565	64,440	34.9	22,602	171,429	11.6	1896-1900.
18,950	117,029	2.7	59,943	101,866	37 0	21,465	218,518	8.9	1901-1905
3,189	153,160	3.5	102,198	137,379	42 7	38,835	295,253	11.6	1906-1910
25,626	189,517	11 9	167,863	129,612	56 4	94,832	238,131	24.8	1911-1915
73,142	471,407	13 4	424,243	150,177	73 9	215,704	267,862	44.6	1915-1920. <sup>1</sup>
56,620	391,469	12.6	411,802	197,423	67.6	253,058	466,817	55.2	1921-1925.
	177,022	8.9	160,166	146,902	52 2	76,455	302,877	22.2	1910-1914.
17,290	296,122	16 7	340,677	102,970	76 8	156,464	207,715	43.0	1915-1919. <sup>2</sup>
59,384	119,848	8 4	16,087	78,611	17 0	14,576	193,195	7 0	1884.
10,930	91,142	11.5	14,025	64,230	17 9	14,828	167,715	8.1	1885.
11,796	102,207	9 4	16,006	75,533	17 5	16,784	178,007	8 6	1886.
10,565	100,620	9.9	20,282	99,798	16 9	17,559	185,241	8 7	1887.
11,095	95,826	13 7	20,657	100,947	17 0	14,028	197,191	6 6	1888.
15,222	106,192	13.1	19,655	95,425	17 1	13,052	199,430	6 1	1889.
16,062	117,957	11.5	19,275	97,660	16 5	12,009	218,677	5 2	1890.
15,375	85,603	42 1	23,435	113,011	17 2	14,495	203,082	6 7	1891.
62,119	28,180	79 8	26,437	86,293	23 5	14,959	189,585	7.3	1892.
111,614	31,881	79.3	33,114	102,495	24 4	16,876	211,889	7.4	1893.
121,858	24,895	84 0	15,129	67,765	18.3	13,302	135,496	8 9	1894.
130,454	72,683	32.1	29,955	66,531	31 0	21,625	177,919	10.8	1895.
34,343	102,902	13 4	37,718	63,353	37 3	30,588	196,051	13 5	1896.
15,908	112,163	13 2	39,566	48,925	44 7	34,427	183,417	15 8	1897.
17,082	67,217	21.9	23,739	55,550	29 9	15,316	137,709	10 0	1898.
18,874	103,665	16.0	26,226	65,728	28 5	15,670	153,847	9.2	1899.
19,783	109,918	17.4	45,578	88,644	34 0	17,007	186,119	8.4	1900.
23,110	122,724	2.2	44,700	82,877	35 0	19,976	185,530	9 7	1901.
2,817	92,283	3.2	51,138	96,519	34.6	19,084	212,336	8.2	1902.
3,068	113,203	2 9	67,258	128,493	34.4	19,609	238,149	7.6	1903
3,417	114,895	2.8	65,558	94,676	40 9	24,765	228,092	9.8	1904.
3,328	142,039	2.3	71,061	106,767	40 0	23,890	228,482	9.5	1905.
3,317	137,009	2.4	91,172	129,126	41.4	28,508	279,294	9 3	1906
3,349	154,551	2 6	116,722	157,374	42 6	31,992	332,201	8 8	1907.
4,105	141,540	3.7	84,721	111,528	43 2	35,961	265,657	10 8	1908.
5,469	160,524	3 1	95,079	127,023	42 8	32,723	266,384	10 9	1909.
5,177	172,176	5.2	123,295	161,843	43 2	64,993	302,730	17.7	1910.
9,991	150,668	7.2	142,773	145,013	49 6	64,028	296,495	13 0	1911.
12,339	179,471	8 5	153,258	140,481	52 2	77,725	282,294	21 6	1912.
16,629	183,354	5 6	180,580	168,822	51 7	97,122	311,057	23 8	1913.
10,839	190,443	16 3	200,925	118,350	62 9	127,508	321,810	28 4	1914.
37,202	234,652	17.9	161,781	75,396	68 2	106,876	229,001	31 8	1915.
51,073	93,359	17.7	103,717	40,035	72 2	59,383	87,367	40.5	1915 (6 mos.)
20,082	301,306	11 0	299,265	118,595	71 6	136,606	208,972	39 5	1916
37,401	292,298	16 9	422,021	114,642	78 6	168,270	224,178	42.9	1917.
59,255	305,646	23 1	561,448	88,137	86 4	200,809	204,099	49 6	1918.
91,724	489,304	12 5	309,579	209,418	65 6	240,601	252,602	48 8	1919.
69,504	1,113,825	10.0	547,308	255,149	68.2	380,702	496,023	43.4	1920.
124,814	314,707	14 6	236,458	125,289	65 4	267,887	352,164	43.2	1921.
53,604	344,304	11 1	370,871	181,806	67.1	245,151	417,767	37 0	1922 <sup>3</sup>
43,115	478,044	9 8	471,775	248,954	65 5	241,888	529,912	31 3	1923 <sup>3</sup>
52,164	459,556	11 9	402,898	192,989	70 6	241,778	507,568	32.3	1924 <sup>3</sup>
62,044	360,735	16.7	517,010	233,075	68 5	269,060	526,673	33.8	1925 <sup>3</sup>
72,171	360,625	13.7	568,379	235,954	70 7	305,481	571,147	34 8	1926 <sup>3</sup>
57,192	375,151	16.8	527,187	222,614	70.3	310,780	567,817	35 4	1927 <sup>3</sup>
75,698	380,609	18.5	541,456	221,375	71 0	345.671	560,502	38.1	1928 <sup>3</sup>

<sup>3</sup> See headnote and supplemental Table No. 519, p. 478.

**No. 519.—SUPPLEMENT TO TABLES 518 AND 527: FREE AND DUTIABLE GENERAL IMPORTS OF MERCHANDISE ADJUSTED FOR VALUES OF WHEAT AND WOOL CLASSIFIED AS DUTIABLE BUT ENTERED FREE UNDER SPECIAL PROVISIONS, 1922 TO 1928**

NOTE.—All figures in thousands of dollars. Since 1922 there is an understatement of the value of free goods in the figures for general imports resulting from the following facts. (1) Wheat imported (practically all coming from Canada) is generally all reported as dutiable when first entered, but most of it is subsequently used for milling-in-bond for export and in that case no duty is collected; (2) carpet wool is nearly all reported as dutiable when first entered but most of it is subsequently used for making carpets in which case no duty is collected. These shifts affect the general total and the totals for the economic classes of crude materials, and crude foodstuffs in Table 518. The following table shows for these classes approximately the proportions free and dutiable imports from Canada (Table 527). The shift of carpet wool from dutiable to free likewise affects somewhat the proportions free and dutiable in imports from countries supplying carpet wool (principally United Kingdom, China, Argentina, Chile, and India), but no adjustments have been made for such countries or for continent totals.

	1922	1923	1924	1925	1926	1927	1928
<b>WHEAT</b>							
Imports entered for consumption							
Total	24, 147	19, 227	16, 224	16, 703	22, 129	14, 679	23, 189
Free for manufacture and export	11, 757	10, 340	9, 647	15, 001	21, 489	14, 651	22, 908
Per cent free	48 7	53 8	59 5	89 8	97 1	99 8	98 8
General imports dutiable	25, 943	19, 229	15, 590	19, 343	19, 692	15, 344	22, 040
Estimated general imports classified as dutiable but entered free under special provision	12, 634	10, 345	9, 276	17, 370	18, 982	15, 313	21, 776
<b>CARPET WOOL</b>							
Imports entered for consumption							
Total	25, 667	25, 713	33, 092	42, 416	33, 075	35, 550	39, 556
Free for manufacture into carpets	25, 080	22, 644	29, 543	38, 439	29, 978	32, 809	35, 674
Per cent free	97 7	88 1	89 3	90 6	90 6	92 3	90 2
General imports free and dutiable							
Total	29, 267	26, 304	34, 174	47, 232	30, 102	37, 470	37, 947
Estimated general imports entered free	28, 594	23, 174	30, 517	42, 792	27, 272	34, 555	34, 228
Carpet wool entered free	22, 166	2, 484	3, 619	5, 345	5, 214	3, 712	4, 933
Estimated general imports classified as dutiable but entered free under special provision	6, 428	20, 690	26, 898	37, 447	22, 058	30, 873	29, 295

	1922		1923		1924	
	Reported	Adjusted	Reported	Adjusted	Reported	Adjusted
All commodities	3, 112, 747	3, 112, 747	3, 792, 066	3, 792, 066	3, 609, 963	3, 609, 963
Free	1, 871, 917	1, 890, 979	2, 135, 942	2, 166, 977	2, 080, 096	2, 116, 270
Dutiable	1, 240, 830	1, 221, 768	1, 656, 124	1, 625, 089	1, 529, 867	1, 493, 693
Per cent free	60 1	60 7	56 3	57 1	57 6	58 6
Crude foodstuffs	329, 809	335, 899	363, 032	363, 032	424, 873	424, 873
Free	249, 600	262, 234	279, 222	289, 567	335, 741	345, 017
Dutiable	80, 209	67, 575	83, 810	73, 465	89, 132	79, 856
Per cent free	75 7	79 5	76 9	79 8	79 0	81 2
Crude materials	1, 179, 894	1, 179, 894	1, 406, 797	1, 406, 797	1, 258, 256	1, 258, 256
Free	963, 150	969, 578	1, 091, 393	1, 112, 033	977, 035	1, 004, 538
Dutiable	216, 744	210, 316	315, 404	294, 714	280, 621	253, 723
Per cent free	81 6	82 2	77 6	79 0	77 7	79 8
From Canada	364, 025	364, 025	416, 005	416, 005	399, 148	399, 148
Free	277, 787	290, 421	310, 024	320, 369	300, 330	309, 606
Dutiable	86, 238	73, 604	105, 981	95, 636	98, 818	89, 542

	1925		1926		1927		1928	
	Reported	Adjusted	Reported	Adjusted	Reported	Adjusted	Reported	Adjusted
All commodities	4, 226, 589	4, 226, 589	4, 430, 888	4, 430, 888	4, 184, 742	4, 184, 742	4, 091, 444	4, 091, 444
Free	2, 651, 266	2, 706, 083	2, 853, 411	2, 894, 451	2, 621, 873	2, 668, 059	2, 616, 239	2, 667, 310
Dutiable	1, 575, 323	1, 520, 506	1, 577, 477	1, 536, 437	1, 562, 869	1, 516, 683	1, 475, 205	1, 424, 134
Per cent free	62 7	64 0	64 4	65 3	62 7	63 8	63 9	65 2
Crude foodstuffs	494, 800	494, 800	539, 818	539, 818	504, 686	504, 686	549, 892	549, 892
Free	392, 942	410, 312	438, 594	457, 576	392, 971	403, 284	431, 587	453, 363
Dutiable	101, 858	84, 488	101, 224	82, 242	111, 715	96, 402	118, 305	96, 529
Per cent free	79 4	82 9	81 2	84 8	80 9	80 9	78 5	82 4
Crude materials	1, 748, 065	1, 748, 065	1, 792, 292	1, 792, 292	1, 600, 809	1, 600, 809	1, 486, 734	1, 486, 734
Free	1, 400, 083	1, 437, 530	1, 483, 772	1, 505, 830	1, 315, 237	1, 346, 110	1, 222, 411	1, 251, 706
Dutiable	347, 982	310, 535	308, 520	286, 462	285, 572	254, 699	244, 323	215, 028
Per cent free	80 1	82 2	82 8	84 0	82 2	84 1	83 3	85 3
From Canada	454, 235	454, 236	475, 881	475, 881	475, 028	475, 028	489, 803	489, 803
Free	331, 763	349, 133	352, 245	371, 227	344, 193	359, 506	355, 484	377, 260
Dutiable	122, 473	105, 103	123, 636	104, 654	130, 835	115, 522	133, 819	112, 043

<sup>1</sup> Includes wheat valued at \$139,000 entered free

<sup>2</sup> Wheat valued at \$139,000 entered free has been deducted.

## No. 520.—PERCENTAGE DISTRIBUTION OF EXPORTS AND GENERAL IMPORTS, BY CONTINENTS

NOTE.—Percentages are based on figures shown in Table 521 See headnote to that table

Yearly average or year	Per cent of total exports							Per cent of total imports						
	North America		South America	Europe <sup>1</sup>	Asia	Oceania	Africa	North America		South America	Europe	Asia	Oceania	Africa
	North- ern <sup>1</sup>	South- ern						North- ern	South- ern					
1821.....	4.4	22.0	4.1	65.3	3.6	0.1	0.6	0.7	21.7	2.9	64.2	9.8	0.1	0.7
1830.....	3.9	20.5	6.4	66.1	2.7	(.3)	.3	.6	17.2	7.8	64.0	10.0	(.3)	.4
1840.....	4.9	13.9	4.6	74.4	1.3	.3	.6	1.2	15.7	8.8	62.8	10.9	(.2)	.5
1850.....	6.6	9.9	5.4	75.2	2.1	1.1	.7	3.0	9.3	9.2	71.0	7.2	(.3)	.4
1860.....	6.9	8.8	4.7	74.8	2.4	1.5	1.0	6.7	12.5	9.9	61.3	8.3	.3	1.0
1865.....	10.0	20.5	7.2	57.7	1.3	2.4	.8	14.7	19.5	9.7	48.2	6.1	.5	1.4
1870.....	5.5	7.9	3.9	79.8	1.5	1.0	.5	8.3	17.1	9.9	55.1	8.7	.4	.6
1871-1875.....	6.4	7.2	4.0	80.2	1.0	.8	.4	5.9	16.6	11.0	55.6	9.7	.7	.6
1876-1880.....	5.0	5.4	3.3	83.1	1.7	1.1	.6	5.6	17.2	13.8	50.3	11.3	.9	.6
1881-1885.....	5.4	5.7	3.6	81.1	2.2	1.6	.5	6.3	14.4	11.4	55.1	10.5	1.7	.5
1886-1890.....	5.2	5.8	4.3	79.3	2.8	2.0	.5	5.6	13.8	11.5	56.0	10.4	2.3	.5
1891-1895.....	5.5	6.8	3.7	79.5	2.3	1.6	.6	5.6	16.3	14.9	50.6	10.8	2.1	.6
1896-1900.....	6.9	5.6	3.1	76.7	3.9	2.3	1.5	5.0	10.3	13.2	52.6	14.6	3.1	1.3
1901-1905.....	8.6	6.7	3.2	72.3	5.3	2.0	1.9	5.4	13.3	12.5	51.3	15.4	.9	1.1
1906-1910.....	10.2	8.7	4.6	68.2	5.5	1.8	1.0	5.9	13.4	11.7	51.3	15.2	1.2	1.2
1911-1915.....	14.2	7.7	5.2	64.0	5.6	2.2	1.1	7.7	14.5	12.8	46.6	15.8	1.1	1.4
1915-1920 <sup>2</sup> .....	12.0	7.7	5.5	63.2	8.6	1.7	1.3	12.7	17.5	17.6	20.3	27.1	2.1	2.7
1921-1925.....	14.3	10.1	6.8	52.7	11.3	3.2	1.6	11.5	14.9	12.2	30.4	27.3	1.6	2.1
1910-1914.....	14.8	8.4	5.6	62.3	5.6	2.2	1.1	7.0	13.5	12.2	49.5	15.3	1.0	1.8
1915-1919 <sup>4</sup> .....	12.0	6.4	4.7	66.6	7.6	1.6	1.0	12.8	17.5	18.5	20.9	25.6	2.3	2.4
1884.....	6.3	6.1	4.2	78.8	2.3	1.8	.3	5.8	14.6	11.3	55.6	10.2	1.9	.6
1885.....	5.5	4.9	3.7	80.7	2.9	1.9	.4	6.4	13.9	11.3	55.2	10.5	2.1	.5
1886.....	5.2	5.4	3.8	79.7	3.3	2.2	.4	5.9	13.8	10.4	56.3	10.9	2.2	.5
1887.....	5.1	5.2	4.3	80.3	2.8	1.9	.4	5.5	13.4	11.5	56.4	10.5	2.1	.5
1888.....	5.4	6.1	4.3	78.9	2.8	2.1	.4	6.0	13.4	11.7	56.2	10.1	2.2	.5
1889.....	5.7	6.3	4.7	78.0	2.6	2.2	.5	5.8	14.5	12.4	54.1	10.2	2.6	.5
1890.....	4.9	6.1	4.5	79.7	2.4	1.9	.5	5.0	13.8	11.4	57.1	10.2	2.1	.4
1891.....	4.5	6.4	3.8	79.7	2.9	2.1	.5	4.7	14.6	14.1	54.5	9.3	2.4	.5
1892.....	4.4	5.9	3.2	82.6	2.0	1.5	.5	4.3	16.8	18.2	47.3	10.7	2.0	.6
1893.....	5.8	8.4	3.9	78.1	2.0	1.3	.6	4.4	16.8	11.8	52.9	11.5	1.9	.7
1894.....	6.6	6.9	3.7	78.6	2.4	1.3	.6	4.8	20.7	15.3	45.1	11.4	2.2	.5
1895.....	6.7	6.7	4.2	77.8	2.2	1.6	.8	5.1	13.2	15.3	52.4	11.5	1.7	.8
1896.....	6.9	6.3	4.1	76.3	2.9	1.9	1.6	5.3	11.0	14.0	53.7	12.1	2.5	1.4
1897.....	6.3	5.6	3.2	77.4	3.7	2.1	1.6	5.3	8.5	14.0	56.3	12.0	2.6	1.2
1898.....	6.9	4.4	2.7	79.1	3.6	1.8	1.4	5.3	9.6	14.9	49.7	15.7	3.7	1.2
1899.....	7.3	5.6	2.9	76.3	4.0	2.4	1.5	4.5	11.5	12.4	50.8	16.0	3.2	1.5
1900.....	7.0	6.5	2.8	74.6	4.8	2.9	1.4	4.7	10.6	11.0	51.8	17.2	3.4	1.3
1901.....	7.3	6.0	3.0	76.4	3.6	2.1	1.7	5.2	12.4	13.4	52.2	14.8	.8	1.1
1902.....	8.1	6.7	2.8	73.0	5.0	2.1	2.4	5.4	11.3	13.3	52.6	15.1	.8	1.5
1903.....	8.9	6.3	2.9	72.5	4.4	2.4	2.7	5.4	11.1	10.5	53.4	15.5	.9	1.2
1904.....	9.2	6.9	3.5	72.4	4.4	1.9	1.7	5.3	14.7	12.1	50.3	15.7	.8	1.0
1905.....	9.4	7.7	3.7	67.2	8.9	1.8	1.2	5.7	14.6	13.5	48.4	15.6	1.1	1.0
1906.....	9.2	8.5	4.3	68.8	6.4	1.7	1.1	5.7	13.5	11.4	51.6	15.7	1.0	1.0
1907.....	9.9	8.7	4.4	69.0	5.4	1.7	.9	5.2	13.2	11.2	52.1	15.6	1.3	1.5
1908.....	9.2	8.3	4.5	69.0	6.1	1.9	1.1	6.4	13.6	10.5	50.9	16.0	1.2	1.4
1909.....	10.1	8.5	4.6	69.0	5.0	1.8	1.0	6.1	13.2	12.5	49.9	15.8	1.3	1.2
1910.....	12.6	9.5	5.3	65.1	4.5	2.0	1.1	6.2	13.5	12.6	51.8	13.5	1.3	1.1
1911.....	13.4	8.9	5.3	63.8	5.1	2.3	1.2	6.7	13.3	12.0	50.3	15.1	.8	1.8
1912.....	15.1	8.3	6.0	60.9	6.4	2.2	1.1	6.7	13.5	13.0	49.6	15.0	.8	1.4
1913.....	17.9	8.0	5.9	60.0	5.7	2.2	1.2	6.7	13.2	12.0	49.2	16.4	.9	1.5
1914.....	14.8	7.5	5.3	62.9	6.0	2.4	1.2	8.6	14.0	11.8	47.3	16.1	1.3	1.0
1915.....	11.1	6.2	3.6	71.2	5.0	1.9	1.0	9.6	18.6	15.6	36.7	16.2	1.7	1.5
1915 (6 mos.).....	11.0	6.5	4.5	69.7	5.1	2.1	1.1	11.8	15.4	18.2	29.8	21.0	2.0	1.8
1916.....	11.2	5.7	4.0	69.6	7.1	1.5	1.0	10.0	17.5	17.9	26.5	23.0	2.5	2.6
1917.....	13.5	6.8	5.0	65.2	7.5	1.2	.8	14.2	15.3	20.3	18.7	27.8	1.2	2.5
1918.....	14.6	6.9	4.9	62.8	8.1	1.8	1.0	15.1	17.1	20.2	10.5	31.0	3.4	2.8
1919.....	9.5	6.9	5.6	65.5	9.7	1.6	1.2	12.8	16.8	17.6	19.2	28.4	2.3	2.9
1920.....	12.0	11.5	7.6	54.3	10.6	2.1	2.0	11.6	19.9	14.4	23.3	26.5	1.5	2.8
1921.....	13.4	11.8	6.1	52.7	11.9	2.5	1.6	13.5	16.6	11.8	30.5	24.6	1.4	1.6
1922.....	15.2	8.7	5.9	54.4	11.7	2.7	1.5	11.8	14.6	11.5	31.8	26.6	1.6	2.1
1923.....	15.8	10.2	6.5	50.2	12.3	3.5	1.5	11.0	14.5	12.3	30.5	26.9	1.6	2.3
1924.....	13.8	9.9	6.8	53.3	11.2	3.4	1.5	11.1	16.4	12.9	30.4	25.8	1.4	2.0
1925.....	13.4	9.8	8.2	53.0	9.9	3.9	1.8	10.9	12.3	12.3	29.3	31.2	1.8	2.2
1926.....	15.5	8.9	9.2	48.0	11.7	4.4	2.1	11.0	11.9	12.8	29.0	31.6	1.5	2.2
1927.....	17.3	8.4	9.0	47.6	11.5	4.0	2.2	11.6	12.0	12.4	30.5	30.0	1.3	2.2
1928.....	18.1	7.7	9.4	46.3	12.8	3.5	2.3	12.2	11.3	13.9	30.5	28.6	1.3	2.2

<sup>1</sup> See headnotes to Table 521 and Table 522.<sup>2</sup> Less than one-tenth of 1 per cent<sup>3</sup> Period July 1, 1915, to Dec. 31, 1920.<sup>4</sup> Fiscal years.

## No. 521.—EXPORTS (INCLUDING REEXPORTS) AND GENERAL

NOTE.—All figures in thousands of dollars. Merchandise only, specie values. Figures cover fiscal years averages for 1910-1914 and 1915-1919. The Philippine Islands are included with Asia for all years; adjusted for recent years for grain shipments to Canada which are actually in transit to Europe are

Yearly average or year	Exports							
	Total	North America		South America	Europe <sup>1</sup>	Asia	Oceania	Africa
		Northern <sup>1</sup>	Southern					
1821	54,496	2,392	11,965	2,208	35,575	1,977	71	309
1830	71,671	2,802	14,723	4,586	47,393	1,906	27	234
1840	123,669	6,090	17,241	5,714	92,039	1,560	330	696
1850	144,376	9,519	14,284	7,730	108,638	3,028	190	987
1860	333,576	22,883	29,273	15,706	249,425	8,100	4,062	3,227
1865	166,029	16,618	34,003	12,026	95,744	2,350	4,016	1,273
1870	392,772	21,703	31,100	15,188	313,315	5,773	3,873	1,820
1871-1875	501,841	32,034	36,188	20,235	402,268	5,029	3,969	2,117
1876-1880	676,761	33,714	36,303	22,087	562,202	11,236	7,437	3,782
1881-1885	791,892	42,636	44,836	28,212	641,824	17,526	12,785	4,074
1886-1890	738,379	38,758	43,053	32,046	585,681	20,339	15,070	5,382
1891-1895	892,421	49,310	60,724	33,247	709,239	20,672	13,965	5,263
1896-1900	1,157,318	79,961	65,375	35,699	887,401	45,263	26,338	17,281
1901-1905	1,453,803	124,560	97,733	46,246	1,050,540	76,942	29,738	28,044
1906-1910	1,778,697	180,836	154,743	82,142	1,212,978	97,240	32,353	18,400
1911-1915	2,370,539	337,091	182,315	122,243	1,517,404	133,348	51,506	26,032
1915-1920 <sup>2</sup>	6,521,190	780,221	503,439	360,744	4,123,523	562,476	109,121	81,668
1921-1925	4,397,026	627,381	444,578	297,115	2,817,944	498,853	141,426	69,729
1910-1914	2,165,818	319,890	181,205	121,028	1,850,300	121,042	47,715	24,638
1915-1919 <sup>2</sup>	5,308,823	638,704	340,971	250,837	3,534,473	403,716	87,262	52,860
1884	740,514	46,861	45,356	31,227	583,795	17,371	13,347	2,555
1885	742,190	40,539	36,225	27,735	599,241	21,444	13,818	3,187
1886	679,525	35,184	36,797	26,132	541,373	22,594	14,644	2,801
1887	716,183	36,475	36,951	30,744	575,300	20,116	13,720	2,877
1888	695,955	37,637	42,359	29,579	549,093	19,584	14,580	3,123
1889	742,401	42,528	47,023	35,021	578,903	19,371	16,060	3,497
1890	857,829	41,967	52,133	38,753	683,736	20,279	16,346	4,614
1891	884,481	39,844	56,705	33,708	704,798	26,170	18,497	4,758
1892	1,030,278	45,260	60,306	33,148	850,623	20,368	15,512	5,061
1893	847,665	48,826	70,963	32,639	661,977	17,017	11,046	5,196
1894	892,141	58,470	61,223	33,212	700,871	21,668	11,772	4,924
1895	807,538	54,152	54,424	33,526	627,928	18,134	12,997	6,378
1896	882,607	61,231	55,336	36,298	673,044	25,702	17,035	13,871
1897	1,050,994	66,196	58,762	33,769	813,386	39,370	22,558	16,953
1898	1,231,482	85,095	54,533	33,822	973,806	44,836	21,875	17,516
1899	1,227,023	89,765	68,167	35,660	936,602	48,764	29,471	18,594
1900	1,394,483	97,517	90,078	38,946	1,040,168	67,554	40,751	19,470
1901	1,487,765	107,967	88,567	44,400	1,136,505	53,418	31,365	25,543
1902	1,381,719	111,877	92,094	38,044	1,008,034	69,203	29,000	33,469
1903	1,420,142	125,967	89,515	41,138	1,029,257	62,308	33,430	38,437
1904	1,490,827	133,960	100,950	50,755	1,057,930	64,984	28,013	24,230
1905	1,518,562	143,080	117,540	56,894	1,020,973	134,705	26,879	18,541
1906	1,743,865	159,806	148,577	75,160	1,200,166	110,911	29,682	19,562
1907	1,880,851	186,176	163,664	82,157	1,298,452	101,365	32,525	16,511
1908	1,600,773	170,669	154,005	83,584	1,283,600	113,247	35,327	20,841
1909	1,063,011	167,423	142,054	76,562	1,146,755	82,982	30,200	17,035
1910	1,744,985	220,104	165,416	93,247	1,135,915	77,694	34,057	18,551
1911	2,049,320	274,478	182,582	108,895	1,308,276	105,146	46,338	23,607
1912	2,204,322	333,900	182,938	132,310	1,841,733	141,198	48,200	24,043
1913	2,465,884	420,404	197,009	146,148	1,479,075	140,441	53,718	29,089
1914	2,304,579	350,563	178,082	124,540	1,486,499	140,730	56,264	27,902
1915	2,768,589	306,112	170,904	99,324	1,971,435	139,226	53,009	28,520
1915 (6 mos.)	1,852,862	203,475	119,952	83,555	1,291,914	94,712	38,254	21,000
1916	5,482,641	613,416	311,137	220,267	3,813,278	387,735	82,797	54,011
1917	6,233,513	839,305	422,398	311,893	4,061,729	409,402	77,402	51,384
1918	6,149,088	900,248	425,238	302,710	3,858,698	468,477	104,519	59,198
1919	7,920,426	749,950	545,842	441,748	5,187,666	771,717	125,585	97,018
1920	8,228,016	984,818	944,345	623,917	4,466,091	871,579	171,605	165,662
1921	4,485,031	600,434	529,146	273,325	2,363,899	532,615	112,766	72,847
1922	3,581,777	553,461	332,203	226,075	2,083,357	448,970	101,945	55,776
1923	4,167,493	660,507	425,661	269,318	2,093,415	511,498	146,423	60,671
1924	4,590,984	683,876	456,165	314,252	2,446,300	514,592	156,505	70,294
1925	4,909,848	658,640	479,714	402,606	2,608,750	486,592	189,489	89,057
1926	4,808,660	747,685	428,797	443,507	2,810,144	564,543	212,705	101,279
1927	4,865,375	845,307	407,720	438,159	2,813,782	559,605	193,714	107,088
1928	5,128,357	924,172	397,195	480,815	2,874,916	654,514	180,033	116,713

<sup>1</sup>See headnote and supplemental Table 522 on p. 482.



## IMPORTS OF MERCHANDISE DISTRIBUTED BY CONTINENTS

to and including 1915, calendar years thereafter, except as noted. See headnote, Table 517, concerning Hawaiian Islands are with Oceania prior to 1901. Exports to Northern North America and to Europe shown in Table 522, p. 482

General imports								
Total	North America		South America	Europe	Asia	Oceania	Africa	Yearly average or year
	Northern	Southern						
54,521	402	11,816	1,570	35,000	5,324	34	375	1821.
62,721	398	10,793	4,919	40,117	6,241	18	234	1830.
98,259	1,228	15,421	8,606	61,721	10,686	152	445	1840.
173,509	5,180	16,116	16,038	123,115	12,434	9	618	1850.
353,616	23,730	44,180	34,929	216,661	29,239	1,170	3,706	1860.
238,746	35,007	46,063	23,221	115,002	14,440	1,124	3,277	1865.
435,958	36,265	74,435	42,964	240,187	37,773	1,612	2,722	1870.
577,873	33,840	96,124	63,357	321,067	55,794	3,955	3,736	1871-1875.
492,570	27,600	86,646	68,185	247,620	55,635	4,619	2,365	1876-1880.
667,142	41,989	96,309	75,940	367,642	69,906	11,370	4,065	1881-1885.
717,231	40,236	98,819	82,427	401,745	74,439	16,158	3,400	1886-1890.
785,137	36,335	128,043	116,797	397,622	85,169	16,257	4,914	1891-1895.
741,519	37,266	76,007	97,713	389,843	107,999	22,781	9,910	1896-1900.
972,162	52,762	129,634	121,748	498,296	149,537	9,035	11,151	1901-1905.
1,344,838	79,511	180,192	157,126	689,838	205,041	16,601	10,529	1906-1910.
1,712,319	131,455	248,943	219,923	798,115	270,797	19,020	24,065	1911-1915.
3,358,354	425,337	588,103	591,295	682,298	910,340	70,134	90,848	1915-1920.
3,450,103	396,669	514,233	421,336	1,040,494	942,878	53,994	71,499	1921-1925.
1,688,874	118,518	228,618	206,858	836,498	258,534	17,276	22,573	1910-1914.
2,514,557	321,382	439,019	466,212	525,122	642,479	59,002	61,342	1915-1919.
667,698	39,016	97,305	75,754	370,957	67,844	12,708	4,114	1884.
577,527	36,979	80,471	65,290	318,733	60,854	12,069	3,131	1885.
535,436	37,505	87,927	65,875	357,538	69,398	13,964	3,228	1886.
623,320	38,087	92,704	79,764	390,728	72,875	14,604	3,557	1887.
723,957	43,116	96,703	84,356	407,052	73,213	16,205	3,812	1888.
745,132	43,039	107,826	92,135	408,421	75,846	18,253	3,810	1889.
789,310	39,434	108,934	90,006	449,987	80,863	16,764	3,821	1890.
844,916	39,450	123,776	118,737	459,305	78,987	20,454	4,207	1891.
827,402	35,335	138,719	150,728	531,628	88,850	16,824	5,318	1892.
866,401	38,254	145,479	102,208	458,450	99,316	16,838	5,587	1893.
654,995	31,444	135,519	100,147	295,078	74,878	14,450	3,479	1894.
731,970	37,191	96,724	112,167	383,646	83,813	12,720	5,709	1895.
779,725	41,376	85,501	108,828	418,639	94,575	19,632	11,173	1896.
764,730	40,863	65,061	107,389	430,192	91,678	20,017	9,530	1897.
616,050	32,404	58,973	92,092	305,934	96,425	23,029	7,194	1898.
697,148	31,690	80,460	86,588	353,885	111,501	22,588	10,436	1899.
849,941	39,999	90,037	93,667	440,567	145,814	28,640	11,218	1900.
823,172	42,935	102,223	110,367	429,620	122,099	6,974	8,954	1901.
903,321	48,846	102,230	119,786	475,162	136,295	7,554	13,448	1902.
1,025,719	55,669	134,067	107,428	547,227	159,075	9,671	12,582	1903.
991,087	52,701	146,078	120,364	498,697	155,576	8,244	9,427	1904.
1,117,513	63,657	163,572	150,796	540,773	174,641	12,731	11,344	1905.
1,226,562	69,603	165,750	140,423	633,292	192,434	12,432	12,629	1906.
1,434,421	74,813	188,763	160,166	747,291	223,966	18,275	21,127	1907.
1,194,342	76,301	162,515	124,999	608,014	191,332	14,891	16,291	1908.
1,311,920	80,467	173,533	163,879	654,323	206,982	17,628	15,109	1909.
1,556,947	96,371	210,397	196,165	806,270	210,473	19,782	17,490	1910.
1,527,226	102,264	203,233	182,624	768,168	230,850	12,874	27,214	1911.
1,653,265	110,145	223,927	215,089	819,585	248,725	13,207	22,586	1912.
1,813,008	121,704	240,179	217,735	892,866	267,505	16,533	26,425	1913.
1,893,926	162,046	265,353	222,677	895,603	305,115	23,932	19,149	1914.
1,674,170	161,055	312,025	261,490	614,355	271,790	28,502	24,933	1915.
912,787	107,626	140,821	166,239	271,684	191,667	18,021	16,730	1915 (6 mos.).
2,391,635	240,161	418,277	427,610	633,317	550,866	59,511	61,893	1916.
2,952,468	419,124	452,858	598,819	551,145	820,624	36,835	73,064	1917.
3,031,213	457,660	516,955	610,931	318,121	939,301	102,737	85,506	1918.
3,904,365	500,165	657,609	687,525	750,528	1,107,733	88,616	112,188	1919.
5,787,481	614,618	1,048,045	760,999	1,227,843	1,396,677	80,014	150,285	1920.
2,509,148	337,632	417,217	295,623	764,042	617,862	35,499	40,373	1921.
3,112,747	366,524	455,930	358,763	991,203	826,886	48,517	64,924	1922.
3,792,066	418,348	583,169	467,421	1,157,056	1,019,811	59,200	87,061	1923.
3,609,963	402,047	593,108	466,074	1,096,087	930,708	48,945	72,992	1924.
4,226,589	458,791	521,742	518,797	1,238,181	1,319,126	77,808	92,144	1925.
4,430,888	485,503	526,067	567,979	1,285,863	1,400,701	68,355	96,420	1926.
4,184,742	484,499	500,959	518,275	1,276,466	1,256,758	54,531	93,255	1927.
4,091,444	499,959	460,743	569,410	1,248,749	1,168,928	53,450	90,207	1928.

¹ Period July 1, 1915, to Dec. 31, 1920.

² Fiscal years ended June 30.

# No. 522.—SUPPLEMENT TO TABLES 520, 521, AND 528: ADJUSTED FIGURES OF EXPORTS TO CANADA, NORTH AMERICA, NORTHERN NORTH AMERICA, AND EUROPE

NOTE.—Especially since 1920 large quantities of United States grain have been shipped through Canada (mostly via Montreal) to other foreign countries. Since the final destination is customarily not known when shipped, this grain is reported as an export to Canada, but as a matter of fact practically all of it except from five to ten million dollars' worth of corn annually goes thence to Europe. In the following table the reported figures of total value of exports are adjusted on the assumption that all this grain was destined for Europe, an assumption adopted for convenience and involving only a small margin of error. Figures cover fiscal years for 1910-1914, calendar, for all other years

[Millions and tenths of millions of dollars]

Yearly average or year	Grain reported as exported to Canada	Adjusted figures deducting such grain from exports to Canada and adding to exports to Europe						
		Values of exports to—				Per cent of exports to entire world to—		
		Canada	Northern North America	North America	Europe	Northern North America	North America	Europe
1910-1914.....	7 1	308 0	313 0	494 0	1,357.4	14.4	22.8	62.7
1921-1925.....	72 3	546 6	555 0	999 6	2,390.3	12.6	22.7	54.4
1913.....	6 5	594 7	402 3	594 7	1,506 1	16 2	23 9	60 6
1919.....	18 8	715 4	731 1	1,277 0	5,206 5	9 2	16 1	65 7
1920.....	70 5	901 3	914 3	1,858 7	4,536 6	11 1	22 5	55 1
1921.....	79 9	513 8	520 6	1,049 7	2,443 8	11 6	23 4	54 5
1922.....	78 5	498 2	505 0	837 2	2,161 9	13 2	21 8	56 4
1923.....	40 6	611 3	619 9	1,045 6	2,134 0	14.9	25 1	51 2
1924.....	105 6	518 4	528 2	984 4	2,550 9	11.5	21 4	55 6
1925.....	57.2	591.5	601 4	1,081.1	2,661 0	12.2	22.0	54.2
1926.....	56 2	682 3	691 5	1,120 3	2,366 4	14.4	23 3	49 2
1927.....	113 9	722 6	731 4	1,139 1	2,427 7	15.0	23 4	49 9
1928.....	82 8	831.9	841 4	1,238.6	2,457.7	16.4	24.2	47.9

# No. 523.—SUPPLEMENT TO TABLES 524, 525, AND 526: ADJUSTED FIGURES OF EXPORTS OF UNITED STATES MERCHANDISE TO NORTH AMERICA AND EUROPE BY ECONOMIC CLASSES

[All figures except percentages in thousands of dollars See headnote to Table 522]

	1910-1914	1921-1925	1925	1926	1927	1928
ADJUSTED EXPORTS, (GRAINS EXPORTED TO CANADA TREATED AS EXPORTED TO EUROPE) <sup>1</sup>						
North America.....	476,127	956,958	1,022,075	1,057,263	1,070,697	1,178,728
Foodstuffs.....	79,049	168,135	169,614	163,591	152,947	155,189
Crude foodstuffs.....	24,394	55,464	52,622	55,633	51,635	51,828
Europe.....	1,340,920	2,351,854	2,632,921	2,336,814	2,393,754	2,424,964
Foodstuffs.....	806,733	768,322	634,422	568,980	638,315	505,376
Crude foodstuffs.....	96,722	348,721	251,790	251,153	353,769	224,270
Per cent of total exports of foodstuffs exported to—						
North America.....	18.8	16.5	19.0	19.5	17.3	20.4
Europe.....	72.8	75.2	71.2	67.9	72.2	66.5
Percentage distribution of total adjusted exports to—						
North America.....	100.0	100.0	100.0	100.0	100.0	100.0
Crude materials.....	18.1	17.3	12.1	17.4	16.8	15.2
Foodstuffs.....	16.6	17.6	16.6	15.5	14.3	13.2
Semi-manufactures.....	14.8	12.8	13.9	14.7	14.8	14.4
Finished manufactures.....	50.5	52.3	57.5	52.4	54.1	57.2
Europe.....	100.0	100.0	100.0	100.0	100.0	100.0
Crude materials.....	44.4	37.1	42.4	37.5	33.5	36.6
Foodstuffs.....	22.9	32.7	24.1	24.3	26.7	20.3
Semi-manufactures.....	17.1	11.2	13.6	12.9	14.4	14.3
Finished manufactures.....	15.6	19.0	19.9	25.3	25.4	23.2

<sup>1</sup> See Table 522 for grain exports to Canada and for reasons for adjustments.

## No. 524.—FOREIGN TRADE WITH EACH CONTINENT, BY ECONOMIC CLASSES

NOTE.—Values in millions and tenths of millions of dollars. Data prior to 1915 are for years ended June 30; thereafter, for calendar years. The Philippine Islands are included in Oceania prior to 1922 and in Asia for later years; therefore, Asia and Oceania are combined for the averages

	1905- 1909 <sup>1</sup>	1910- 1914 <sup>1</sup>	1921- 1925 <sup>1</sup>	1925	1926	1927	1928
<b>EXPORTS OF U. S. MERCHANDISE</b>							
<b>North America<sup>2</sup></b>	297.6	483.3	1,029.3	1,079.3	1,113.5	1,184.6	1,281.5
Crude materials	56.5	86.2	165.9	123.3	184.2	179.7	178.9
Crude foodstuffs <sup>3</sup>	20.8	31.5	127.8	109.9	111.9	165.6	134.6
Manufactured foodstuffs	39.3	54.7	112.7	117.0	108.9	101.3	103.4
Semimanufactures	35.9	70.4	122.6	141.7	155.6	158.5	170.1
Finished manufactures	145.1	240.6	500.3	587.4	553.9	579.6	674.5
<b>South America</b>	74.4	120.5	294.1	400.4	440.9	435.6	477.8
Crude materials	.8	2.7	7.9	6.3	15.8	6.3	3.4
Crude foodstuffs	.9	1.3	4.0	4.8	11.7	6.8	7.4
Manufactured foodstuffs	8.5	11.9	21.9	32.8	31.4	28.4	30.4
Semimanufactures	11.5	21.8	46.1	65.5	67.6	76.9	71.8
Finished manufactures	52.7	82.8	214.3	291.0	314.3	317.2	364.7
<b>Europe<sup>2</sup></b>	1,178.0	1,338.8	2,279.5	2,575.7	2,280.8	2,279.8	2,342.2
Crude materials	459.7	594.9	873.5	1,116.9	876.2	802.9	888.2
Crude foodstuffs <sup>3</sup>	131.0	89.6	276.4	194.5	194.9	239.8	141.5
Manufactured foodstuffs	255.5	210.0	419.6	382.6	317.8	284.5	281.1
Semimanufactures	174.4	229.8	263.7	357.0	300.5	345.6	347.7
Finished manufactures	157.5	209.5	446.3	524.6	591.2	607.0	683.7
<b>Asia<sup>3</sup></b>	158.0	168.2	637.7	485.5	563.4	558.9	658.0
Crude materials	17.2	27.1	135.0	160.9	165.5	191.3	209.6
Crude foodstuffs	2.8	3.1	13.9	8.4	14.5	7.9	10.2
Manufactured foodstuffs	15.1	15.2	36.7	29.3	33.0	36.2	39.1
Semimanufactures	14.2	17.1	96.4	73.2	103.6	88.1	99.8
Finished manufactures	89.6	105.8	355.6	213.7	246.7	235.0	294.3
<b>Oceania</b>				188.9	212.1	193.2	179.6
Crude materials				9.0	10.3	8.3	9.1
Crude foodstuffs				.1	.7	.6	.7
Manufactured foodstuffs				5.3	5.7	4.9	4.9
Semimanufactures				17.2	20.7	22.7	18.8
Finished manufactures				157.3	174.6	156.7	146.1
<b>Africa</b>	18.4	24.6	69.6	88.9	101.2	107.0	116.0
Crude materials	1.4	2.3	6.4	5.6	9.2	4.3	4.0
Crude foodstuffs	2.1	1.0	1.7	.1	1.3	.4	.3
Manufactured foodstuffs	3.7	3.2	6.8	6.8	7.1	7.9	6.9
Semimanufactures	1.6	2.5	5.7	7.1	7.5	7.9	8.1
Finished manufactures	9.5	15.6	49.0	69.4	76.1	86.4	96.7
<b>GENERAL IMPORTS</b>							
<b>North America</b>	243.8	347.1	910.9	980.5	1,011.6	985.5	980.7
Crude materials	76.8	114.0	220.0	246.4	223.9	207.7	193.1
Crude foodstuffs	35.2	53.8	113.4	127.7	147.3	144.7	156.3
Manufactured foodstuffs	74.2	102.7	298.3	246.0	238.1	253.9	203.6
Semimanufactures	39.7	46.4	148.6	176.8	189.8	170.7	176.5
Finished manufactures	17.9	30.1	130.6	183.5	212.5	208.4	231.2
<b>South America</b>	148.1	206.9	421.3	518.8	568.0	518.3	569.4
Crude materials	57.2	78.9	131.6	145.7	157.1	164.6	175.3
Crude foodstuffs	70.5	95.6	197.7	274.7	307.3	288.0	291.8
Manufactured foodstuffs	2.6	3.2	8.7	5.8	9.9	9.7	12.4
Semimanufactures	16.9	26.8	78.1	90.2	89.4	71.3	85.2
Finished manufactures	.8	2.4	5.3	2.4	4.3	4.6	4.7
<b>Europe</b>	636.7	836.5	1,049.5	1,238.2	1,285.9	1,276.5	1,248.7
Crude materials	166.8	229.4	337.8	337.8	306.7	281.1	261.0
Crude foodstuffs	21.3	30.3	27.7	35.8	32.5	34.1	40.5
Manufactured foodstuffs	55.0	70.9	79.7	91.6	97.7	100.0	96.5
Semimanufactures	138.1	196.5	261.3	321.5	361.2	339.1	332.4
Finished manufactures	255.5	309.4	440.8	451.5	487.8	522.1	518.4
<b>Asia<sup>3</sup></b>	213.1	275.8	996.9	1,319.1	1,400.7	1,256.8	1,188.9
Crude materials	113.1	151.0	655.3	891.1	989.4	852.3	747.5
Crude foodstuffs	20.7	23.0	34.0	41.4	37.2	37.7	43.9
Manufactured foodstuffs	19.5	17.5	60.9	83.8	65.6	81.9	86.3
Semimanufactures	23.3	37.1	104.7	146.4	138.6	144.1	142.5
Finished manufactures	36.5	47.2	141.9	156.4	169.8	140.8	143.7
<b>Oceania</b>				77.8	68.4	54.5	53.5
Crude materials				70.5	59.4	47.0	44.2
Crude foodstuffs				.8	.4	.4	.1
Manufactured foodstuffs				4.4	5.7	4.7	6.7
Semimanufactures				1.2	1.6	1.3	1.2
Finished manufactures				.9	1.2	1.1	1.2
<b>Africa</b>	15.3	22.6	71.5	92.1	96.4	93.3	90.3
Crude materials	14.7	21.6	46.2	55.6	55.5	48.0	45.6
Crude foodstuffs	.3	.4	10.5	14.4	15.1	19.7	17.3
Manufactured foodstuffs	( <sup>4</sup> )	( <sup>4</sup> )	.6	1.2	.7	.6	.3
Semimanufactures	.1	.3	13.1	20.0	24.0	23.3	25.1
Finished manufactures	.2	.2	1.1	1.1	1.0	1.5	2.0

<sup>1</sup> Average for period.<sup>2</sup> "Asia and Oceania" for 1905-1909, 1910-1914, and 1921-1925.<sup>3</sup> See headnote to Table 522 and Supplemental Table 523.<sup>4</sup> Less than \$50,000.

# No. 525.—PER CENT EACH CONTINENT FURNISHES OR TAKES OF TOTAL TRADE IN EACH ECONOMIC CLASS

NOTE.—Percentages are based on data shown in Table 524, except calculations were made from the full figures See also Supplemental Table 523

Continent	1905-1909, average	1910-1914, average	1921-1925, average	1926	1927	1928	1905-1909, average	1910-1914, average	1921-1925, average	1926	1927	1928
	Crude materials						Foodstuffs					
<b>Exports (U. S. mdse.):</b>												
North America.....	10 6	12 1	14 0	14 6	15 1	13 8	12 5	20 4	23 5	26 2	30 2	31 3
South America.....	1	.4	7	1 3	5	3	2 0	3 1	2 5	5 1	4 0	5 0
Europe.....	85 8	83 4	73 5	69 5	67 3	68 7	80 6	71 1	68 1	61 2	59 3	55 6
Asia and Oceania.....	3 2	3 8	11 4	13 9	16 7	16 9	3 7	4 3	5 0	6 4	5 6	7 2
Africa.....	3	3	5	7	.4	3	1 2	1 0	.8	1 0	.9	.9
<b>General imports:</b>												
North America.....	17 9	19 2	17 0	12 5	13 0	13 2	36 5	39 4	49 5	40 2	41 7	37 7
South America.....	13 4	13 3	10 2	8 8	10 3	12 0	24 4	24 9	24 8	33 1	29 1	31 8
Europe.....	38 9	38 6	18 6	17 1	17 6	17 8	25 5	25 4	12 9	13 6	14 0	14 3
Asia and Oceania.....	26 4	25 4	50 7	58 5	56 2	54 0	13 4	10 2	11 4	11 4	13 1	14 3
Africa.....	3 4	3 6	3 6	3 1	3 0	3 1	1	1	1 3	1 7	2 1	1 8
	Semimanufactures						Finished manufactures					
<b>Exports (U. S. mdse.):</b>												
North America.....	15 1	20 6	22 9	23 7	22 6	23 7	31 9	36 8	32 0	28 3	29 2	29 8
South America.....	4 8	6 4	8 6	10 3	11 0	10 0	11 6	12 7	13 7	16 1	16 0	16 1
Europe.....	73 4	67 3	49 3	45 8	49 4	48 5	34 7	32 0	28 5	30 2	30 6	30 3
Asia and Oceania.....	6 0	5 0	18 0	19 0	15 8	16 6	19 7	16 2	22 7	21 5	19 8	19 5
Africa.....	.7	.7	1 1	1 1	1 1	1 1	2 1	2 4	3 1	3 9	4 4	4 3
<b>General imports:</b>												
North America.....	18 2	15 1	24 5	23 6	22 8	23 1	5 8	7 7	18 1	24 2	23 7	25 5
South America.....	7 7	8 7	12 9	11 1	9 5	11 2	3	.6	.7	.5	.5	.5
Europe.....	63 3	64 0	43 1	44 9	45 2	43 6	82 2	79 5	61 2	55 6	59 4	57 2
Asia and Oceania.....	10 7	12 1	17 3	17 4	19 4	18 8	11 7	12 1	19 7	19 5	16 2	16 5
Africa.....	(1)	.1	2 2	3 0	3 1	3 3	.1	.1	.2	.1	.2	.2

1 Less than one-tenth of 1 per cent

# No. 526.—PER CENT EACH ECONOMIC CLASS FORMS OF TOTAL TRADE WITH EACH CONTINENT

NOTE.—Percentages are based on data shown in Table 524, except calculations were made from the full figures See also Supplemental Table 523

Class	1905-1909, average	1910-1914, average	1921-1925, average	1926	1927	1928	1905-1909, average	1910-1914, average	1921-1925, average	1926	1927	1928
	North America						South America					
<b>Exports (U. S. mdse.):</b>												
Crude materials.....	100 0	100 0	100 0	100 0	100 0	100 0	100 0	100 0	100 0	100 0	100 0	100 0
Foodstuffs.....	19 0	17 8	16 1	16 5	15 2	14 2	1 1	2 2	2 7	3 6	1 4	.7
Semimanufactures.....	20 2	17 8	23 4	19 7	22 5	18 9	12 7	10 9	8 8	9 8	8 1	7 9
Finished manufactures.....	12 0	14 6	11 9	14 0	13 4	13 5	15 5	18 1	15 7	15 3	17 6	15 0
<b>General imports:</b>												
Crude materials.....	48 8	49 8	48 6	49 7	48 9	53 5	70 8	68 7	72 9	71 3	72 8	76 3
Foodstuffs.....	100 0	100 0	100 0	100 0	100 0	100 0	100 0	100 0	100 0	100 0	100 0	100 0
Semimanufactures.....	31 5	32 9	24 2	22 1	21 1	20 1	38 7	38 1	31 2	27 7	31 8	30 8
Finished manufactures.....	44 9	45 1	45 2	38 1	40 5	37 5	49 4	47 8	49 0	55 8	53 6	53 4
	16 3	13 4	16 3	18 8	17 3	18 4	11 4	13 0	18 5	15 7	13 8	15 0
	7 4	8 7	14 3	21 0	21 2	24 1	.5	1 1	1 3	.7	.9	.8
	Europe						Asia and Oceania					
<b>Exports (U. S. mdse.):</b>												
Crude materials.....	100 0	100 0	100 0	100 0	100 0	100 0	100 0	100 0	100 0	100 0	100 0	100 0
Foodstuffs.....	39 0	44 6	38 3	38 4	35 2	37 9	12 4	16 1	21 2	22 7	26 6	26 3
Semimanufactures.....	32 8	22 5	30 5	22 5	23 0	18 0	12 9	10 8	7 9	7 0	6 6	6 6
Finished manufactures.....	14 8	17 2	11 6	13 2	15 2	14 8	10 2	10 2	15 1	16 0	14 7	14 2
<b>General imports:</b>												
Crude materials.....	13 4	15 7	19 6	25 9	26 6	29 2	64 5	62 9	55 8	54 3	52 1	52 9
Foodstuffs.....	100 0	100 0	100 0	100 0	100 0	100 0	100 0	100 0	100 0	100 0	100 0	100 0
Semimanufactures.....	26 2	27 4	22 9	23 8	22 0	20 9	53 1	54 7	65 7	71 4	68 6	64 8
Finished manufactures.....	12 0	12 1	10 2	10 1	10 5	11 0	18 9	14 7	9 5	7 4	9 5	11 2
	21 7	23 5	24 9	28 1	26 6	26 6	10 9	13 5	10 5	9 5	11 1	11 8
	40 1	37 0	42 0	37 9	40 9	41 5	17 1	17 1	14 2	11 6	10 8	12 3

## No. 527.—FREE AND DUTIABLE GENERAL IMPORTS BY PRINCIPAL COUNTRIES

NOTE.—For the years 1927 and 1928 dutiable imports for consumption from Canada were less and the free imports correspondingly greater than the general imports because of wheat which was originally classified as dutiable but which was later entered free under special provision. For adjusted figures see Table 519. There was a similar difference between imports for consumption and general imports from China caused by a reclassification of carpet wool from dutiable to free and this affects to a smaller degree statistics for Argentina, British India, and other wool exporting countries. See headnote, Table 519.

[All figures except percentages in thousands of dollars]

Country	1910-1914 average			1927			1928		
	Free	Dutiable	Per cent free	Free	Dutiable	Per cent free	Free	Dutiable	Per cent free
Grand total.....	905,796	783,078	53.6	2,621,874	1,562,869	62.7	2,616,239	1,475,205	63.9
Northern North America.....	64,446	54,072	54.4	352,385	132,114	72.9	364,891	135,068	73.0
Canada <sup>1</sup> .....	63,855	53,358	54.5	344,193	130,835	72.5	355,484	133,819	72.7
Newfoundland and Labrador.....	565	707	44.4	7,810	1,256	86.1	8,919	1,198	88.2
Southern North America.....	97,122	131,495	42.5	206,086	294,873	41.1	221,570	239,173	48.1
Mexico.....	59,387	11,092	84.3	103,059	34,756	74.8	91,928	32,586	73.8
Central American countries.....	16,808	561	96.8	33,445	6,986	82.7	40,139	5,206	88.5
Cuba.....	4,789	117,288	3.9	10,341	246,444	4.0	8,107	174,735	4.0
Other West Indies and Bermudas.....	16,138	2,555	86.3	59,241	6,636	89.9	81,396	6,646	92.5
South America.....	191,833	15,025	92.7	443,207	75,068	85.5	504,455	64,953	88.6
Argentina <sup>1</sup> .....	22,758	10,120	69.2	41,102	56,137	42.3	52,206	47,231	52.5
Bolivia.....	2	( <sup>2</sup> )	93.2	201	17	92.2	174	—	98.9
Brazil.....	110,189	689	99.4	198,179	4,848	97.6	217,054	3,647	98.3
Chile.....	22,527	354	98.5	60,138	1,720	97.2	72,602	2,557	96.6
Colombia.....	10,952	994	91.7	87,281	522	99.4	94,289	310	99.7
Ecuador.....	3,158	212	93.7	4,399	795	8.04	4,821	525	90.2
Peru.....	8,969	811	91.7	19,385	706	96.5	18,558	2,199	89.4
Uruguay.....	3,539	946	78.9	2,971	7,923	27.3	5,427	6,282	46.3
Venezuela.....	8,782	340	96.3	28,434	164	99.4	38,801	104	99.7
Europe.....	332,967	503,532	39.8	462,830	813,636	36.3	476,772	771,877	38.2
Belgium.....	17,288	23,072	42.8	22,093	49,541	31.4	25,963	49,111	34.6
Czechoslovakia.....	—	—	—	3,461	28,266	10.9	6,051	30,732	16.5
Denmark.....	1,966	631	75.7	2,250	1,894	54.3	1,837	2,101	46.6
France.....	41,227	88,903	31.7	46,044	121,756	27.4	46,038	112,710	29.0
Germany.....	63,746	112,716	36.1	69,246	131,808	34.5	84,029	138,101	37.8
Greece.....	474	2,855	14.2	1,796	27,850	6.1	1,642	12,968	11.2
Italy.....	17,321	33,828	33.9	20,231	88,739	18.6	18,766	82,914	18.5
Netherlands.....	10,151	24,786	29.1	30,147	57,094	34.6	26,180	57,424	31.3
Norway.....	2,126	5,960	26.3	10,684	11,547	48.1	9,472	12,254	43.6
Soviet Russia in Europe.....	15,418	3,713	80.6	4,457	7,683	36.7	6,869	7,080	49.2
Spain.....	10,071	11,539	46.6	9,295	25,056	27.1	11,935	23,083	34.1
Sweden.....	1,955	7,575	20.5	39,555	8,341	82.6	36,475	9,611	79.1
Switzerland.....	561	24,121	2.3	5,366	40,501	11.7	5,539	37,356	12.9
United Kingdom.....	140,814	138,083	50.5	172,645	185,286	48.2	171,806	176,735	49.3
Asia.....	187,298	71,236	72.4	1,043,606	213,152	83.0	937,539	231,889	80.2
British India <sup>1</sup> .....	30,175	26,181	53.5	49,716	81,288	37.9	57,514	91,418	38.6
British Malaya.....	24,318	307	98.8	276,013	1,771	99.4	203,074	1,290	99.4
Ceylon.....	9,430	536	94.6	37,370	3,476	91.5	28,420	2,317	92.5
China <sup>1</sup> .....	25,613	9,710	72.5	104,464	47,216	68.9	92,789	47,162	66.3
Netherland East Indies.....	4,676	4,518	50.9	87,969	3,419	96.3	80,052	6,091	92.9
Hong Kong.....	1,717	1,337	56.2	9,410	5,375	63.6	9,491	4,076	70.0
Japan.....	66,749	18,250	78.5	354,807	47,298	88.2	339,226	45,224	88.2
Philippine Islands.....	19,412	18	99.9	115,973	8	100.0	115,603	6	99.9
Oceania.....	12,221	5,055	70.7	31,573	22,958	57.9	30,386	23,064	56.8
Australia.....	8,256	4,056	67.1	19,407	19,580	49.3	16,353	15,225	51.8
New Zealand.....	2,821	937	75.1	9,395	3,276	74.1	11,443	7,765	59.6
Africa.....	19,909	2,664	88.2	82,187	11,068	88.1	80,626	9,580	89.4
British South Africa.....	696	1,767	28.3	4,432	4,309	50.7	5,084	4,095	55.4
British West Africa.....	650	98	86.8	23,118	827	96.5	21,397	772	96.5
Egypt.....	16,618	269	98.4	31,010	2,282	93.1	26,902	1,785	93.8

<sup>1</sup> See headnote

<sup>2</sup> Less than \$500.

## No. 528.—EXPORTS (INCLUDING REEXPORTS) AND GENERAL IMPORTS OF

NOTE.—In the case of some countries, especially those having no seaports, there is considerable indirect imports from them; for such countries the apparent balance of trade may be far from the true balance. Adjusted figures taking account of this movement are given in Table 522. Figures for 1910 to 1914

[All figures in

Country	Imports							
	1910-1914, average	1921-1925, average	1923	1924	1925	1926	1927	1928
<b>Grand total</b> .....	1,688,874	3,450,103	3,792,066	3,609,963	4,226,589	4,430,888	4,184,742	4,091,444
<b>North America</b> <sup>1</sup> .....	347,136	910,902	1,001,618	995,156	980,533	1,011,570	985,453	980,702
<b>1. Northern</b> <sup>1</sup> .....	118,618	396,668	418,348	402,047	458,791	485,503	484,499	499,959
Canada <sup>1</sup> .....	117,213	393,771	416,005	399,148	454,235	475,881	475,028	489,303
Newfoundland and Labrador.....	1,272	2,528	2,166	2,569	3,713	9,039	9,066	10,117
Miquelon and St. Pierre.....	7	37	2	19	152	64	58	90
Greenland.....	<sup>2</sup> 33	333	175	311	691	519	347	449
<b>2. Southern</b> .....	228,617	514,233	583,169	593,109	521,742	528,067	500,959	460,743
Mexico.....	70,479	147,488	140,142	167,087	178,835	169,306	137,815	124,514
<i>Central America</i> .....	17,369	36,357	37,281	37,262	42,625	48,373	40,430	45,345
British Honduras.....	1,435	2,421	2,227	2,155	2,834	2,848	3,749	2,851
Costa Rica.....	3,793	5,090	4,631	4,689	4,792	7,062	6,035	5,555
Guatemala.....	2,845	10,015	11,267	10,089	11,338	14,491	10,179	9,561
Honduras.....	2,756	5,957	4,937	5,960	8,719	8,720	9,311	12,289
Nicaragua.....	1,420	4,987	5,428	5,453	6,188	5,976	4,227	5,490
Panama.....	3,781	4,635	4,267	5,004	6,431	5,549	5,384	6,398
Salvador.....	1,338	3,251	4,524	3,912	2,323	4,237	1,545	3,201
<i>West Indies and Bermudas</i> .....	140,770	330,388	405,747	388,760	300,232	307,887	322,714	290,884
Bermudas.....	599	1,076	1,099	1,195	893	1,124	1,107	944
Barbados.....	<sup>3</sup> 308	351	359	206	456	569	496	437
Jamaica.....	<sup>4</sup> 6,140	6,873	6,626	6,174	8,238	9,111	9,723	8,000
Trinidad and Tobago.....	<sup>5</sup> 5,490	5,199	5,162	4,862	5,970	8,234	7,461	9,675
Other British.....	<sup>1</sup> 1,434	2,372	1,923	2,859	3,028	3,380	3,862	2,257
Cuba.....	122,077	299,605	376,443	361,721	261,673	250,600	256,786	202,842
Dominican Republic.....	3,617	8,138	8,350	5,825	7,258	8,131	11,026	9,372
Netherland West Indies.....	474	4,290	3,592	4,140	9,298	24,386	29,933	54,433
French West Indies.....	59	168	56	218	387	162	105	162
Haiti.....	794	1,651	1,722	1,166	2,060	1,379	1,247	1,567
Virgin Islands of U. S.....	221	660	415	394	1,021	810	968	1,195
<i>South America</i> .....	206,858	421,336	467,421	466,074	518,797	567,979	518,275	569,410
<b>3. Caribbean</b> .....	22,545	65,832	60,579	75,887	84,766	115,190	118,840	135,575
Colombia.....	11,946	49,370	45,706	57,729	63,376	90,242	87,803	94,599
<i>Guana</i> .....								
British.....	494	675	762	931	980	1,206	981	914
Surinam (Netherlands).....	944	737	821	613	743	361	1,412	1,091
French.....	38	177	179	151	103	66	46	66
Venezuela.....	9,122	14,873	13,112	16,463	19,564	23,316	28,598	38,905
<b>4. East Coast</b> .....	148,280	251,361	282,139	262,230	318,877	342,513	312,075	332,397
Argentina.....	32,878	83,270	115,276	75,298	80,170	88,058	97,246	99,438
Falkland Islands.....		468	1,272	411	655	104		3
Brazil.....	110,878	152,170	143,234	179,337	221,572	235,307	203,027	220,701
Paraguay.....	39	655	545	114	380	541	913	546
Uruguay.....	4,485	14,799	21,811	7,070	16,100	18,502	10,895	11,709
<b>5. West Coast</b> .....	36,034	104,142	124,703	127,957	115,154	110,276	87,360	101,438
Bolivia.....	2	1,082	2,354	84	84	280	218	176
Chile.....	22,881	77,186	91,801	98,284	89,194	81,442	61,857	75,160
Ecuador.....	3,370	6,859	6,146	6,697	8,702	6,757	5,194	5,345
Peru.....	9,780	19,015	24,402	22,892	17,174	21,797	20,091	20,757

For footnotes, see pp. 490 and 491.

## MERCHANDISE BY CONTINENTS, COMMERCIAL REGIONS, AND COUNTRIES

trade by way of other countries, this being usually larger in the case of our exports to them than of our  
ance. A specially marked case of indirect trade is that of grain exported through Canada to Europe.  
cover fiscal years; other figures, calendar years

thousands of dollars]

Exports (including reexports)								Country
1910- 1914, average	1921- 1925, average	1923	1924	1925	1926	1927	1928	
2,165,818	4,397,027	4,167,493	4,590,984	4,909,848	4,808,660	4,865,375	5,128,357	Grand total
501,095	1,071,959	1,086,168	1,090,041	1,138,354	1,176,482	1,253,027	1,321,367	North America, <sup>1</sup>
319,890	627,382	660,507	633,877	658,641	747,685	845,307	924,172	1. Northern. <sup>1</sup>
315,044	619,017	651,921	624,031	648,768	738,568	836,532	914,713	Canada. <sup>1</sup>
4,778	8,181	8,375	9,698	9,623	8,851	8,483	9,210	Newfoundland and Lab rador.
68	174	194	148	231	258	280	245	Miquelon and St Pierre.
-----	10	17	-----	19	8	12	4	Greenland
181,205	444,577	425,661	456,164	479,713	428,798	407,720	397,195	2. Southern.
53,091	146,345	120,196	135,075	144,720	134,994	109,148	115,654	Mexico
37,569	58,758	56,197	64,855	72,780	75,052	76,548	82,117	Central America
1,482	1,922	1,817	1,836	2,162	2,369	2,061	1,838	British Honduras.
3,437	5,139	4,835	5,965	6,800	6,312	7,298	8,088	Costa Rica.
2,834	7,214	6,314	8,824	9,382	11,088	10,632	13,314	Guatemala
2,847	10,312	11,257	9,101	9,570	7,540	8,487	9,728	Honduras.
2,442	5,284	4,990	6,250	7,435	6,264	6,950	7,357	Nicaragua.
22,451	22,807	21,769	26,367	28,237	31,921	34,051	34,201	Panama.
2,077	6,060	5,214	6,492	9,194	9,557	6,869	7,591	Salvador.
90,545	239,494	249,268	256,254	268,213	218,752	222,224	199,424	West Indies and Bermudas
1,446	3,637	4,034	3,475	3,160	3,287	3,774	3,458	Bermudas.
<sup>2</sup> 1,467	1,591	1,519	1,607	1,410	1,593	1,616	1,531	Barbados.
<sup>2</sup> 4,974	8,537	8,837	7,291	8,945	8,386	8,641	8,141	Jamaica
<sup>2</sup> 3,329	5,176	4,394	3,822	4,209	4,905	5,930	4,717	Trinidad and To- bago.
<sup>2</sup> 2,945	5,446	5,836	5,162	5,572	6,040	5,750	5,635	Other British.
63,047	181,294	192,438	199,778	198,655	160,488	155,383	127,897	Cuba.
4,411	15,282	13,427	15,642	17,764	14,572	18,871	16,807	Dominican Re- public.
864	3,095	2,720	3,710	4,207	4,866	6,431	13,622	Netherlands West In- dies.
1,633	2,630	2,461	2,529	2,665	1,958	2,704	2,597	French West Indies.
5,862	10,910	11,983	11,570	13,711	10,857	11,071	12,742	Haiti.
854	1,894	1,618	1,668	1,915	1,799	2,053	2,277	Virgin Islands of U. S.
121,028	297,115	269,318	314,252	402,606	443,507	438,159	480,815	South America.
13,075	43,965	37,081	48,020	70,008	92,281	86,381	99,055	3. Caribbean.
5,764	25,862	22,298	27,764	41,377	49,281	48,694	58,596	Colombia.
1,808	2,094	1,704	1,565	2,000	1,582	1,501	1,348	Guana—
723	983	810	802	1,220	1,578	1,183	1,034	British.
294	450	350	246	254	151	139	157	Surinam (Nether- lands).
4,486	14,576	11,919	17,643	25,157	39,690	34,744	37,920	French.
84,715	193,497	174,029	201,359	258,396	283,005	278,666	306,453	Venezuela.
47,169	117,002	112,782	117,093	148,759	143,575	163,485	178,899	4. East Coast.
1	4	1	16	4	60	67	80	Argentina.
31,484	59,921	45,584	65,207	87,461	95,449	88,737	100,104	Falkland Islands.
134	617	586	821	902	905	1,317	1,354	Brazil.
5,927	15,952	15,077	18,222	21,270	23,015	25,060	26,016	Paraguay.
23,239	59,653	58,208	64,873	74,202	88,221	73,232	75,307	5. West Coast.
915	3,649	3,039	4,122	5,088	5,163	4,942	4,951	Bolivia.
13,870	30,132	31,058	31,377	39,274	49,043	37,889	40,351	Chile.
2,424	4,930	4,336	5,537	6,808	4,662	5,531	6,595	Ecuador.
6,030	20,942	19,776	23,837	23,032	29,353	24,870	23,410	Peru.

## No. 528.—EXPORTS (INCLUDING REEXPORTS) AND GENERAL IMPORTS OF MER

[All figures in

Country	Imports							
	1910- 1914, average	1921- 1925, average	1923	1924	1925	1926	1927	1928
Europe <sup>1</sup> .....	836,499	1,049,494	1,157,056	1,096,087	1,238,181	1,285,863	1,276,466	1,248,749
6. Northwestern and Central.	723,829	884,987	964,179	924,148	1,035,645	1,070,229	1,050,866	1,054,460
Sweden.....	9,530	34,073	36,184	40,031	41,033	44,018	47,896	46,086
Norway.....	8,086	18,498	20,099	21,392	23,289	25,055	22,231	21,726
Denmark.....	2,597	6,029	6,630	6,168	4,328	5,508	4,145	3,938
Iceland.....	71	106	56	32	97	178	92	327
United Kingdom.....	278,897	<sup>2</sup> 355,781	404,072	366,466	412,705	383,198	357,931	348,540
Irish Free State.....		<sup>4</sup> 1,269			1,269	1,476	1,597	1,273
Belgium.....	40,360	58,335	68,005	65,559	69,019	77,793	72,234	75,074
France.....	130,130	147,875	149,613	147,636	157,433	152,020	167,800	158,748
Netherlands.....	34,937	70,625	77,521	74,044	92,539	101,855	87,242	83,604
Austria.....	<sup>5</sup> 18,077	4,097	4,697	4,967	5,858	9,419	10,611	12,121
Czechoslovakia.....		17,373	16,673	22,423	22,838	28,302	31,726	36,783
Hungary.....	<sup>6</sup> (5)	603	1,313	588	719	873	941	1,215
Germany.....	176,462	132,496	161,193	139,258	164,251	198,495	200,554	222,130
Switzerland.....	24,682	38,843	38,124	35,582	40,267	42,038	45,866	42,895
7. Northeastern.....	19,254	17,719	19,800	24,459	27,387	34,921	31,055	32,735
Estonia.....		400	492	339	320	1,235	432	1,064
Finland.....	<sup>2</sup> 153	7,549	10,253	8,251	7,159	9,108	8,670	9,872
Latvia.....		2,578	3,714	4,663	3,709	5,982	4,469	3,836
Lithuania.....		255	161	814	767	947	520	410
Poland and Danzig.....		2,369	3,633	2,848	2,527	4,147	4,825	3,604
Soviet Russia in Europe.....	19,131	4,557	<sup>6</sup> 1,347	8,144	12,905	13,503	12,139	13,949
8. Southwestern.....	79,589	115,147	129,870	110,018	140,431	151,081	149,758	143,678
Azores and Madeira.....	267	2,495	2,335	2,964	1,743	1,595	1,814	1,615
Islands.....								
Gibraltar.....	11	16	16	10	34	31	53	30
Italy.....	51,149	79,141	92,268	75,011	102,205	102,526	108,970	101,681
Portugal.....	6,552	3,855	3,789	3,041	3,651	5,560	4,565	5,329
Spain.....	21,610	29,639	31,461	28,992	32,798	41,369	34,351	35,018
9. Southeastern.....	13,827	31,642	23,407	37,464	34,718	29,632	44,792	17,881
Bulgaria.....	376	1,029	894	1,544	968	1,295	892	707
Greece.....	3,329	22,255	14,388	27,729	26,187	16,903	29,646	14,610
Malta, Gozo, and Cy- prus Islands.....	18	160	123	118	228	195	226	121
Rumania.....	248	266	336	99	302	1,098	649	677
Turkey in Europe.....	8,859	7,421	7,473	7,288	5,602	8,981	12,394	-----
Yugoslavia and Albania.....	<sup>7</sup> 996	511	193	686	1,431	1,155	985	1,766
Asia.....	258,534	942,879	1,019,811	930,709	1,319,126	1,400,701	1,256,757	1,188,928
10. Western.....	13,578	21,279	17,598	22,337	28,967	26,234	26,874	41,791
Aden.....	1,808	2,221	2,513	2,186	3,286	2,892	3,060	3,315
Arabia.....		2,547	2,267	3,892	4,973	4,145	71	90
Iraq.....							4,308	5,744
Palestine.....		2,337	2,101	3,470	4,550	2,945	248	280
Syria.....							3,984	4,681
Persia.....	1,377	4,773	5,181	5,456	7,212	8,401	7,527	9,293
Turkey in Asia.....	10,392	9,402	<sup>8</sup> 5,536	7,333	9,046	7,851	7,676	18,388
11. Southern and South- eastern.....	119,750	425,025	443,098	431,433	715,416	815,192	657,887	586,072
British India.....	58,356	109,020	127,978	103,277	144,503	150,930	131,003	148,932
Ceylon.....	<sup>9</sup> 9,966	<sup>9</sup> 27,059	27,949	25,325	48,159	55,805	40,846	30,737
British Malaya.....	24,625	153,247	153,865	147,086	314,023	383,800	277,784	204,364
Java and Madura.....	<sup>(10)</sup>	<sup>(10)</sup>	37,373	37,963	56,160	68,395	51,600	53,890
Other Netherland East Indies.....	9,194	54,962	17,517	19,557	39,674	51,222	39,788	32,252

For footnotes, see pp. 490 and 491.



## CHANDISE, BY CONTINENTS, COMMERCIAL REGIONS, AND COUNTRIES—Continued

thousands of dollars]

Exports (including reexports)								Country
1910-1914, average	1921-1925, average	1923	1924	1925	1926	1927	1928	
1,350,299	2,317,944	2,093,415	2,445,300	2,603,750	2,310,144	2,313,782	2,374,916	Europe <sup>1</sup>
1,222,899	1,980,827	1,799,075	2,096,293	2,193,586	1,984,517	1,976,378	1,975,049	6 Northwestern and Central.
10,033	39,443	42,403	42,313	42,465	40,854	44,689	57,323	Sweden.
7,819	28,081	27,610	23,237	26,200	24,880	23,361	21,141	Norway
15,393	42,615	38,768	43,413	55,747	50,577	58,605	47,173	Denmark
16	290	128	120	249	247	202	297	Iceland.
567,592	939,412	882,321	982,942	1,033,856	972,606	840,059	847,326	United Kingdom.
	47,280			7,280	16,987	10,882	13,466	Irish Free State.
53,117	111,284	100,762	116,001	120,258	99,299	116,216	111,830	Belgium.
138,841	265,196	272,131	281,664	280,299	264,004	228,781	240,692	France
104,575	138,228	109,173	151,764	141,518	135,795	148,220	142,278	Netherlands.
20,581	2,211	1,833	3,192	2,884	2,891	4,364	5,978	Austria.
	1,665	1,080	1,951	2,854	2,968	7,442	5,341	Czechoslovakia
(3)	330	128	370	819	987	1,753	2,734	Hungary
304,098	383,219	316,837	440,418	470,344	364,162	481,681	467,260	Germany.
833	7,198	5,901	8,908	8,813	8,260	10,123	12,210	Switzerland.
25,882	58,267	38,437	57,890	90,485	66,995	92,000	109,487	7. Northeastern.
	2,081	1,417	1,389	1,584	826	918	960	Estonia
3,031	10,442	11,214	9,378	12,801	12,916	16,488	18,742	Finland.
	3,047	5,285	1,126	1,305	727	1,029	1,070	Latvia
	67	105	102	43	88	218	335	Lithuania
	10,881	12,111	4,581	6,556	3,939	9,261	15,876	Poland and Danzig
23,456	31,749	6,305	41,314	68,196	48,499	64,086	72,504	Soviet Russia in Europe.
96,451	268,107	239,102	268,188	295,579	240,199	219,495	263,859	8. Southwestern.
214	987	495	886	1,144	1,280	1,946	731	Azores and Madeira
473	3,412	615	907	1,348	1,677	1,450	1,619	Islands
65,996	185,237	167,532	187,146	205,151	157,402	131,651	162,125	Gibraltar.
3,610	8,005	8,598	8,733	11,634	11,634	10,672	12,771	Italy.
26,189	70,465	61,862	71,163	79,203	68,206	73,776	86,613	Portugal
5,068	30,943	18,801	22,929	24,100	18,433	25,909	26,521	Spain.
165	745	613	332	302	358	468	649	9. Southeastern
873	17,153	11,900	16,722	16,633	10,353	15,028	13,853	Bulgaria.
378	1,381	1,067	1,259	1,192	1,312	1,112	805	Greece.
1,415	2,409	1,178	1,192	2,199	3,111	4,925	9,431	Malta, Gozo, and Cyprus Islands.
2,225	8,058	2,947	2,943	2,773	2,510	3,380		Rumania
12	1,198	1,096	481	1,001	789	996	1,783	Turkey in Europe.
121,042	498,853	511,498	514,592	488,592	564,543	559,605	654,514	Yugoslavia and Albania.
								Asia
2,600	8,047	4,565	5,503	7,074	6,122	7,478	11,900	10. Western.
1,345	1,099	950	471	589	549	587	516	Aden.
	362	359	339	660	1,043	400	322	Arabia.
	3,129	2,488	3,084	4,779	3,359	1,088	1,506	Iraq.
132	950	245	887	439	754	2,547	3,078	Palestine.
1,123	2,508	523	722	607	417	1,569	1,531	Syria.
						647	4,242	Persia
40,613	119,137	103,708	120,012	135,151	166,770	184,687	186,985	Turkey in Asia
10,904	38,188	30,250	34,901	38,282	50,013	63,297	53,694	11. Southern and South-eastern
413	1,453	1,561	1,589	2,386	2,858	2,674	2,746	British India.
2,876	8,030	7,724	7,801	11,388	13,563	13,624	11,816	Ceylon.
(10)	(10)	8,997	9,529	13,549	17,407	23,558	26,316	British Malaya
3,098	17,242	3,093	4,950	5,655	10,202	8,579	9,129	Java and Madura.
								Other Netherland East Indies

## No. 528.—EXPORTS (INCLUDING REEXPORTS) AND GENERAL IMPORTS OF MER

[All figures in

Country	Imports							
	1910- 1914, average	1921- 1925, average	1923	1924	1925	1926	1927	1928
<b>Asia—Continued</b>								
<b>11. Southern and Southeastern—Continued.</b>								
French Indo-China.....	1	235	366	171	100	197	142	34
Philippine Islands.....	19,430	80,108	77,724	97,088	111,819	103,797	115,980	115,609
Siam.....	110	301	222	307	770	633	570	254
Other Asia.....	68	94	105	59	208	414	174	-----
<b>12. Eastern.....</b>	<b>125,208</b>	<b>496,575</b>	<b>559,115</b>	<b>476,939</b>	<b>574,743</b>	<b>559,275</b>	<b>571,996</b>	<b>541,065</b>
China.....	35,323	142,035	187,602	117,888	168,939	143,204	151,680	139,951
Hong Kong.....	3,054	15,937	19,861	16,490	17,789	11,293	14,785	13,567
Kwantung.....	98	2,739	4,886	2,442	3,527	3,466	2,688	3,021
Japan.....	84,999	335,384	346,995	340,095	384,156	400,693	402,105	384,450
Soviet Russia in Asia.....	1,734	480	11 272	24	332	619	738	76
<b>13. Oceania.....</b>	<b>17,276</b>	<b>53,994</b>	<b>59,200</b>	<b>48,945</b>	<b>77,808</b>	<b>68,355</b>	<b>54,531</b>	<b>53,450</b>
Australia.....	12,312	37,534	41,089	32,868	55,110	45,738	38,627	31,577
New Zealand.....	3,758	13,821	15,573	13,525	19,734	18,826	12,671	19,208
British Oceania.....	118	864	1,000	649	625	1,454	1,069	1,182
French Oceania.....	1,048	1,489	1,457	1,756	1,871	2,337	2,164	1,483
Other Oceania.....	40	286	81	147	468	-----	-----	-----
<b>Africa.....</b>	<b>22,573</b>	<b>71,499</b>	<b>87,061</b>	<b>72,992</b>	<b>92,144</b>	<b>96,420</b>	<b>93,255</b>	<b>90,207</b>
<b>14. Mediterranean.....</b>	<b>18,096</b>	<b>36,232</b>	<b>41,854</b>	<b>32,711</b>	<b>44,999</b>	<b>39,378</b>	<b>39,338</b>	<b>35,619</b>
Algeria and Tunisia.....	<sup>12</sup> 733	<sup>12</sup> 2,096	2,372	1,957	2,933	3,154	4,650	4,938
Canary Islands.....	139	249	235	193	282	464	652	835
Egypt.....	16,887	33,471	38,806	30,095	41,045	35,215	33,292	28,687
Italian Africa.....	106	21	83	1	2	1	11	22
Morocco.....	232	394	358	465	737	542	731	1,136
Spanish Africa, n. e. s.....	-----	-----	-----	-----	-----	-----	2	1
<b>15. Other Africa.....</b>	<b>4,477</b>	<b>35,267</b>	<b>45,207</b>	<b>40,281</b>	<b>47,145</b>	<b>57,042</b>	<b>53,917</b>	<b>54,588</b>
Ethiopia.....	1	2	<sup>(12)</sup> -----	2	-----	14	28	26
Belgian Congo.....	7	909	973	1,186	1,824	1,697	16,015	15,729
British Africa—								
West.....	<sup>14</sup> 749	12,843	17,497	12,196	17,349	19,794	23,945	22,168
Union of South Africa.....	2,463	9,292	13,423	7,727	9,215	19,827	8,742	9,120
Other British South Africa.....	-----	-----	-----	-----	-----	-----	-----	<b>61</b>
East.....	942	1,750	1,578	1,657	3,344	2,258	1,614	2,810
Liberia.....	2	29	18	5	77	280	362	104
Madagascar.....	33	207	156	231	525	271	108	217
French Africa, n. e. s.....	<sup>(12)</sup> -----	<sup>12,15</sup> 775	524	929	1,283	1,199	1,630	1,201
Portuguese Africa.....	280	9,615	-----	-----	-----	-----	-----	-----
Mozambique.....	-----	-----	3,186	4,924	13,444	11,563	1,300	3,071
Other.....	-----	-----	7,851	11,424	84	141	173	81
<b>Latin America (groups 2, 3, 4, and 5).....</b>	<b>435,476</b>	<b>935,569</b>	<b>1,050,590</b>	<b>1,059,183</b>	<b>1,040,539</b>	<b>1,094,046</b>	<b>1,019,233</b>	<b>1,030,153</b>
<b>Far East (groups 11, 12, 13)....</b>	<b>262,233</b>	<b>975,594</b>	<b>1,061,413</b>	<b>957,317</b>	<b>1,367,967</b>	<b>1,442,823</b>	<b>1,234,415</b>	<b>1,180,587</b>

<sup>1</sup> See headnote and Table 522<sup>2</sup> Average, 1911-1914.<sup>3</sup> Irish Free State is included in United Kingdom prior to 1925.<sup>4</sup> 1925 only<sup>5</sup> Figures given under Austria are for Austria-Hungary<sup>6</sup> Includes Ukraine.<sup>7</sup> Serbia and Montenegro.<sup>8</sup> Includes Greece in Asia and Armenia and Kurdistan.

## CHANDISE, BY CONTINENTS, COMMERCIAL REGIONS, AND COUNTRIES—Continued

thousands of dollars]

Exports (including reexports)								Country
1910-1914, average	1921-1925, average	1923	1924	1925	1926	1927	1928	
								Asia—Continued.
243	1,079	2,041	787	1,371	2,190	1,427	1,738	11. Southern and Southeastern Continued.
22,596	51,927	49,241	59,519	61,062	68,648	69,522	79,806	French Indo-China
481	1,199	799	925	1,444	1,852	1,940	2,638	Philippine Islands.
1	19	4	11	14	37	64	103	Siam.
77,829	371,669	403,226	389,077	344,367	391,651	367,440	455,629	Other Asia.
21,578	104,175	108,595	109,189	94,442	110,205	83,471	137,661	12. Eastern.
9,137	17,810	17,610	17,476	14,306	12,819	18,866	21,977	China.
676	6,735	8,760	8,614	5,267	6,466	6,698	6,246	Hong Kong
45,290	241,877	266,949	253,009	229,642	260,754	257,570	288,158	Kwantung.
1,148	1,072	1,312	789	710	1,407	835	1,887	Japan
47,716	141,426	146,423	156,505	189,489	212,705	193,714	180,033	Soviet Russia in Asia.
38,522	111,273	119,389	125,178	148,524	168,695	159,124	141,440	13. Oceania.
7,791	28,198	25,283	29,306	38,363	41,575	32,517	35,825	Australia
296	606	441	581	1,065	1,425	1,156	1,509	New Zealand.
754	1,065	1,044	1,215	1,215	1,011	917	1,259	British Oceania.
153	284	267	225	322				French Oceania.
24,638	69,729	60,671	70,294	89,057	101,279	107,088	116,713	Other Oceania.
								Africa.
4,914	20,830	16,362	15,595	18,200	23,878	25,145	27,668	14. Mediterranean.
12 2,357	17 7,329	5,588	5,525	5,652	6,669	6,855	8,725	Algeria and Tunisia.
752	2,110	1,885	2,001	1,986	3,833	2,343	3,259	Canary Islands.
1,688	8,221	6,174	5,866	7,394	10,249	11,182	11,059	Egypt.
50	63	47	31	95	15	55	80	Italian Africa.
51	2,445	2,112	1,570	2,391	2,313	3,296	3,669	Morocco.
17	661	556	602	682	799	1,414	1,076	Spanish Africa, n. e. s.
19,724	48,899	44,309	54,699	70,857	77,401	81,943	88,845	15. Other Africa.
	10	5	21	7	4	18	21	Ethiopia
34	469	322	498	787	1,233	729	771	Belgian Congo
14 3,189	7,835	8,127	8,009	10,688	9,913	13,777	13,454	British Africa—
12,910	31,369	28,401	36,020	46,162	51,080	52,486	57,016	West
								Union of South
								Africa.
								Other British South
								Africa.
708	2,306	1,455	2,562	3,840	3,977	4,843	4,890	East.
96	213	175	209	329	389	756	597	Liberia.
18	130	80	139	163	287	360	313	Madagascar.
(12) 2,770	12,15 2,350	1,885	2,600	3,256	4,066	2,928	3,353	French Africa, n. e. s.
	4,687							Portuguese Africa.
		3,157	3,946	4,907	4,959	4,872	5,008	Mozambique
		703	695	713	1,492	1,174	1,345	Other.
302,233	741,692	694,979	770,416	882,319	872,305	845,879	878,010	Latin America (groups 2, 3, 4, and 5).
166,158	632,232	653,357	665,594	669,007	771,125	745,841	822,647	Far East (groups 11, 12, 13).

° Other British East Indies prior to 1922.

° Included in other Netherlands East Indies

° Includes Far Eastern Republic.

° Figures given under Algeria and Tunisia include French Africa, n. e. s., for years prior to 1922.

° Less than \$500.

° Includes Kamerun.

° Average, 1922-1925.

# No. 529.—EXPORTS (INCLUDING REEXPORTS) AND GENERAL IMPORTS OF MERCHANDISE, BY GROUPS OF CUSTOMS DISTRICTS

NOTE.—Fiscal years to and including 1915; thereafter, calendar years. All figures except export figures for 1865 and 1870-1878 represent specie values; exports for those years represent mixed gold and currency values and hence do not agree with the specie values given for total exports in other tables. Exports and imports of the interior districts, a small percentage of the total (see Table 531), are not included in this table

[All figures in thousands of dollars]

Year or yearly average	Atlantic coast		Gulf coast		Mexican border		Pacific coast		Northern border	
	Exports	Imports	Exports	Imports	Exports	Imports	Exports	Imports	Exports	Imports
1860	160,216	304,577	153,680	22,303	1,012	528	4,981	7,372	13,688	18,836
1865	257,459	193,741	3,622	1,476	-----	-----	10,905	15,948	16,228	27,580
1870	293,440	370,614	140,020	16,506	2,213	959	14,647	16,241	1,5043	31,639
1871-1875	390,885	501,968	122,677	20,099	2,719	1,440	21,581	26,039	22,318	28,328
1876-1880	533,477	425,404	107,452	12,430	3,114	1,707	33,466	30,326	25,028	22,703
1881-1885	589,552	572,760	114,719	13,834	4,431	2,200	50,742	40,285	32,649	37,141
1886-1890	548,775	594,176	112,611	14,204	3,640	6,413	42,352	46,455	31,000	48,514
1891-1895	655,100	651,233	140,229	21,407	8,597	9,819	44,260	46,683	44,235	48,245
1896-1900	813,139	611,207	188,587	18,356	15,051	4,579	60,712	49,627	79,727	50,247
1901-1905	923,383	776,744	297,581	37,652	25,364	12,931	81,029	55,747	126,276	76,141
1906-1910	1,058,483	1,052,156	408,656	60,901	33,074	16,980	86,229	82,813	192,242	112,757
1911-1915	1,364,246	1,278,953	513,960	100,153	22,785	24,708	135,718	128,019	333,943	159,878
1915-1920	4,234,998	2,245,780	946,560	185,341	49,361	41,471	449,906	429,557	840,366	432,185
1921-1925	2,207,289	2,296,418	1,088,592	233,228	73,826	17,117	374,062	421,082	653,761	456,922
1884	542,780	583,397	110,109	12,948	4,642	1,915	46,895	37,184	36,589	32,254
1885	563,743	481,845	97,798	10,820	2,625	2,422	47,923	35,986	30,101	41,845
1886	505,362	533,642	105,431	10,082	2,095	3,730	39,824	38,704	26,813	43,909
1887	538,943	578,040	104,229	11,963	2,654	5,089	41,414	42,223	28,943	40,793
1888	522,696	585,776	104,674	13,865	3,443	5,712	36,314	49,187	28,828	51,263
1889	548,011	609,888	107,600	17,289	4,401	8,182	48,847	51,171	38,543	51,066
1890	628,865	653,536	141,120	17,821	5,608	9,353	45,361	50,993	36,875	49,540
1891	637,454	697,965	151,941	23,214	7,541	11,106	52,583	53,581	34,962	49,584
1892	753,107	689,458	174,896	21,750	6,993	12,501	55,826	49,988	39,666	46,010
1893	624,278	717,360	122,582	24,682	12,152	13,826	42,230	48,315	43,413	52,923
1894	670,266	537,644	120,788	20,681	7,345	8,229	34,599	41,241	53,143	41,693
1895	590,393	613,737	122,138	16,709	8,955	2,436	36,061	40,290	49,991	51,017
1896	635,842	645,204	131,320	17,548	10,984	3,687	44,071	49,174	60,390	56,153
1897	733,205	639,407	181,269	19,991	13,999	4,135	58,925	43,906	63,596	50,066
1898	862,325	502,146	201,848	13,063	12,135	5,065	74,183	50,264	80,981	39,478
1899	870,755	576,163	194,390	17,483	15,820	4,632	56,204	45,873	89,404	45,888
1900	963,569	693,113	234,108	23,693	22,320	5,373	70,175	58,916	104,267	59,943
1901	1,002,841	607,622	285,465	26,670	21,147	10,142	69,534	48,203	107,939	57,120
1902	885,445	724,371	263,079	31,077	24,231	13,704	87,515	54,301	111,441	67,756
1903	904,172	821,252	285,021	38,378	25,936	13,777	79,253	56,475	125,759	82,054
1904	897,106	779,237	334,795	43,924	29,261	12,450	65,723	57,499	133,942	83,744
1905	917,350	888,239	319,544	48,210	26,245	14,981	103,122	62,257	152,300	90,030
1906	1,061,778	974,563	368,723	53,984	34,925	16,945	101,770	66,324	176,665	97,928
1907	1,079,770	1,133,032	469,273	62,908	41,101	18,001	92,030	91,140	198,074	119,172
1908	1,155,761	907,185	396,552	59,341	33,101	10,869	94,207	81,982	181,147	114,874
1909	976,963	1,018,847	409,631	59,566	27,136	16,178	99,949	85,962	179,329	112,690
1910	1,018,144	1,227,155	399,100	68,705	29,106	22,911	73,189	88,657	225,398	129,123
1911	1,166,469	1,163,540	487,929	82,148	30,397	20,364	94,261	102,703	269,890	137,724
1912	1,262,679	1,268,101	463,974	92,245	27,194	22,512	127,542	111,488	322,371	137,882
1913	1,348,811	1,375,850	543,077	103,612	24,903	27,060	146,856	128,995	401,998	153,613
1914	1,304,109	1,374,821	566,388	120,372	16,630	32,808	136,243	138,151	341,183	205,273
1915	1,739,159	1,212,656	508,435	102,388	14,801	20,801	173,686	158,653	332,020	164,897
1915 (6 mos)	1,303,840	638,241	223,556	44,396	9,766	13,024	97,319	105,067	218,381	105,395
1916	3,826,421	1,654,404	624,381	114,298	23,501	42,970	337,920	294,973	670,418	268,982
1917	4,287,541	1,798,340	663,341	144,479	48,420	46,144	390,024	539,336	844,186	404,061
1918	3,768,942	1,829,544	776,176	156,390	47,556	52,414	538,987	568,563	1,027,428	493,316
1919	5,211,140	2,629,614	1,235,148	220,298	58,021	35,195	599,000	643,137	817,116	529,496
1920	4,904,606	3,801,648	1,683,676	339,513	84,220	38,345	511,233	391,488	1,044,482	605,769
1921	2,378,557	1,726,488	1,076,736	158,231	103,543	10,113	311,605	190,308	614,591	408,411
1922	1,938,344	2,024,914	914,466	188,420	57,012	11,300	312,367	430,152	609,598	440,266
1923	2,070,261	2,534,277	991,864	237,870	59,564	20,155	371,572	480,679	674,231	493,843
1924	2,245,602	2,357,723	1,164,452	281,881	73,283	20,343	447,311	477,302	658,946	441,717
1925	2,403,680	2,839,389	1,295,454	300,038	75,759	23,673	427,475	526,969	681,437	507,373
1926	2,308,548	2,953,131	1,120,944	325,614	72,831	26,317	518,888	546,102	759,473	543,493
1927	2,297,143	2,774,503	1,100,918	285,373	77,120	27,623	506,125	510,569	856,284	555,002
1928	2,290,374	2,677,130	1,227,757	284,576	95,464	30,394	561,007	504,695	924,741	564,119

1 Period July 1, 1915, to Dec. 31, 1920.

# **No. 530.—EXPORTS (INCLUDING REEXPORTS) AND GENERAL IMPORTS OF MERCHANDISE, BY PRINCIPAL CUSTOMS DISTRICTS**

NOTE.—All figures in thousands of dollars. Fiscal years to and including 1915; thereafter, calendar years. Figures represent specie values except for exports for years 1865 and 1870-1878. Areas of districts were rearranged July 1, 1913. Prior to that date some of the districts were more restricted. However in most cases, this change only slightly affects the comparability of the figures. Prior to 1914 the statistics given in the table for Buffalo include the (former) districts of Buffalo Creek and Niagara; those for Michigan include the (former) districts of Superior, Huron, and Detroit; and those for Massachusetts and Maryland were the former districts of Boston and Baltimore, respectively. See also headnote, Table 529

Year or yearly average	Massachusetts		New York		Philadelphia		Maryland		Georgia	
	Ex-ports	Im-ports	Exports	Imports	Ex-ports	Im-ports	Ex-ports	Im-ports	Ex-ports	Im-ports
1860.....	12, 748	39, 334	80, 048	231, 310	5, 527	14, 612	8, 940	9, 781	18, 352	782
1865.....	19, 862	24, 390	202, 509	152, 249	11, 053	7, 038	12, 141	4, 816		
1870.....	14, 126	47, 484	196, 615	281, 049	16, 928	14, 483	14, 511	19, 512	29, 747	1, 002
1871-1875.....	25, 334	59, 165	257, 564	383, 499	24, 907	22, 809	21, 631	27, 966	30, 749	807
1876-1880.....	47, 545	45, 732	321, 999	331, 302	45, 503	24, 360	50, 007	19, 098	20, 591	484
1881-1885.....	64, 752	64, 684	357, 502	453, 943	39, 145	32, 807	51, 007	13, 801	22, 191	702
1886-1890.....	61, 619	62, 591	322, 039	467, 009	33, 012	44, 150	51, 657	12, 968	22, 619	354
1891-1895.....	83, 827	68, 510	360, 521	503, 284	43, 432	57, 617	75, 026	14, 873	25, 020	387
1896-1900.....	110, 895	69, 026	433, 950	477, 123	56, 495	43, 284	98, 725	12, 390	27, 214	377
1901-1905.....	102, 378	80, 132	511, 464	597, 139	73, 588	53, 972	88, 505	22, 211	51, 684	933
1906-1910.....	88, 467	113, 207	639, 080	798, 313	88, 842	74, 278	91, 931	30, 252	60, 781	2, 352
1911-1915.....	76, 794	141, 012	913, 312	975, 410	74, 238	86, 261	107, 095	30, 196	84, 022	4, 882
1915-1920 <sup>1</sup> .....	217, 236	273, 049	2, 912, 529	1, 703, 482	415, 261	144, 489	320, 396	42, 282	139, 812	16, 745
1921-1925.....	55, 559	257, 227	1, 611, 328	1, 675, 784	117, 833	182, 857	113, 995	77, 686	71, 832	19, 714
1884.....	63, 498	65, 866	329, 883	465, 120	36, 493	33, 657	43, 079	11, 424	19, 947	652
1885.....	62, 000	53, 446	344, 515	380, 078	38, 723	29, 919	45, 053	11, 850	20, 871	653
1886.....	54, 099	58, 431	314, 329	419, 339	33, 753	36, 561	35, 848	11, 697	20, 305	426
1887.....	59, 002	61, 018	316, 347	456, 699	35, 427	39, 952	51, 607	12, 536	23, 783	202
1888.....	56, 457	63, 898	310, 627	470, 427	28, 846	41, 772	46, 237	11, 722	20, 256	294
1889.....	66, 534	66, 731	319, 839	472, 154	29, 775	48, 529	50, 612	15, 224	17, 865	374
1890.....	71, 202	62, 877	349, 052	516, 427	37, 411	53, 936	73, 984	13, 140	30, 684	472
1891.....	77, 020	71, 213	364, 529	537, 786	33, 674	59, 428	64, 412	20, 556	33, 506	516
1892.....	87, 176	71, 780	413, 953	536, 538	58, 541	60, 007	98, 850	13, 419	25, 704	302
1893.....	85, 460	79, 358	548, 559	49, 402	66, 122	71, 507	16, 151	19, 440	3438	
1894.....	83, 972	53, 309	369, 146	415, 796	40, 501	53, 727	78, 422	11, 979	25, 527	353
1895.....	85, 505	66, 889	325, 580	477, 741	35, 043	48, 803	61, 939	12, 261	20, 524	426
1896.....	95, 851	79, 180	354, 275	499, 933	39, 567	43, 841	66, 399	13, 477	21, 409	274
1897.....	100, 857	90, 178	391, 680	480, 604	47, 305	48, 073	85, 693	11, 371	23, 443	416
1898.....	117, 532	51, 475	445, 516	402, 281	56, 244	31, 420	118, 846	8, 907	28, 938	392
1899.....	128, 037	52, 098	459, 444	465, 560	60, 950	41, 223	107, 156	9, 151	24, 030	376
1900.....	112, 196	62, 196	518, 834	537, 237	78, 406	51, 866	116, 530	19, 045	38, 252	430
1901.....	143, 708	61, 452	529, 593	527, 260	79, 354	48, 043	105, 239	18, 899	46, 739	645
1902.....	102, 404	71, 921	490, 362	559, 931	80, 383	47, 750	80, 533	22, 825	41, 525	572
1903.....	88, 126	86, 311	505, 830	618, 706	73, 532	59, 995	81, 704	27, 803	54, 141	1, 037
1904.....	89, 846	80, 658	506, 808	600, 171	71, 393	53, 890	82, 836	20, 346	53, 770	924
1905.....	87, 804	100, 318	524, 726	679, 629	63, 278	60, 181	91, 215	21, 181	62, 245	1, 489
1906.....	98, 740	106, 442	607, 160	734, 351	82, 564	70, 801	109, 925	30, 085	64, 840	1, 503
1907.....	100, 872	124, 433	627, 950	853, 697	94, 832	79, 870	104, 809	37, 774	63, 040	2, 204
1908.....	96, 051	93, 679	701, 063	688, 216	109, 261	63, 432	89, 989	29, 477	61, 695	2, 044
1909.....	76, 158	112, 473	607, 239	779, 309	84, 286	68, 884	77, 551	24, 022	50, 900	2, 152
1910.....	70, 517	129, 006	651, 986	935, 991	73, 266	88, 403	77, 382	29, 901	63, 428	3, 855
1911.....	71, 534	116, 597	772, 552	881, 593	69, 956	83, 627	85, 121	32, 174	72, 076	5, 297
1912.....	69, 692	129, 293	817, 946	975, 744	69, 070	85, 038	92, 211	26, 438	104, 287	5, 180
1913.....	69, 553	146, 598	917, 986	1, 048, 221	75, 315	92, 210	116, 474	32, 895	58, 235	4, 462
1914.....	65, 715	159, 916	864, 546	1, 040, 381	65, 183	96, 483	109, 680	34, 489	110, 919	6, 270
1915.....	107, 476	162, 654	1, 193, 581	931, 011	90, 666	72, 948	131, 978	24, 983	74, 595	3, 251
1915 (6 mos.).....	53, 707	81, 345	1, 026, 310	498, 617	77, 689	31, 420	57, 647	11, 938	20, 262	859
1916.....	183, 953	202, 990	2, 790, 403	1, 257, 185	317, 134	111, 411	291, 168	38, 942	68, 638	1, 684
1917.....	208, 532	229, 404	2, 901, 138	1, 361, 662	502, 224	102, 244	377, 376	36, 963	107, 777	4, 888
1918.....	221, 315	295, 915	2, 560, 857	1, 294, 415	425, 072	115, 011	300, 717	35, 983	111, 391	15, 001
1919.....	334, 487	299, 365	3, 456, 329	2, 064, 654	519, 564	153, 819	353, 713	38, 900	258, 682	15, 397
1920.....	192, 802	392, 753	3, 283, 873	2, 892, 621	442, 250	282, 763	381, 557	69, 824	202, 014	54, 269
1921.....	60, 251	164, 922	1, 730, 256	1, 332, 265	130, 672	122, 302	142, 810	41, 124	64, 124	9, 986
1922.....	50, 545	238, 507	1, 375, 396	1, 484, 685	126, 477	154, 332	124, 941	60, 069	67, 673	14, 072
1923.....	52, 159	307, 288	1, 518, 852	1, 797, 820	106, 507	219, 710	93, 436	51, 836	51, 493	28, 928
1924.....	57, 346	253, 852	1, 657, 698	1, 690, 003	106, 444	202, 697	100, 172	100, 494	77, 337	22, 666
1925.....	47, 494	321, 567	1, 774, 436	2, 074, 149	119, 064	215, 343	108, 614	94, 906	98, 534	22, 917
1926.....	41, 283	305, 879	1, 662, 538	2, 224, 964	97, 005	195, 823	129, 348	106, 241	104, 594	19, 490
1927.....	42, 181	288, 499	1, 726, 110	2, 043, 783	90, 911	204, 500	108, 967	97, 228	18, 056	
1928.....	45, 470	276, 512	1, 769, 904	1, 950, 058	88, 424	215, 692	98, 974	110, 026	60, 199	18, 394

<sup>1</sup> Period July 1, 1915, to Dec 31, 1920.

# No. 530.—EXPORTS (INCLUDING REEXPORTS) AND GENERAL IMPORTS OF MERCHANDISE, BY PRINCIPAL CUSTOMS DISTRICTS—Continued

[All figures in thousands of dollars]

Year or yearly average	New Orleans		Galveston		Buffalo		Chicago		Michigan	
	Exports	Im- ports	Exports	Imports	Exports	Im- ports	Exports	Im- ports	Exports	Im- ports
1860.....	108,165	20,636	5,772	533	3,049	4,880	1,165	60	3,827	961
1865.....	3,582	1,464	-----	-----	991	7,118	4,590	311	2,877	1,441
1870.....	107,587	14,377	14,874	509	353	9,275	2,613	736	3,116	1,736
1871-1875.....	90,675	16,694	15,768	1,612	739	7,145	5,053	911	6,314	2,461
1876-1880.....	73,894	9,790	15,214	1,155	578	5,979	3,389	474	9,915	2,994
1881-1885.....	86,165	10,683	21,011	1,922	412	8,304	3,223	2,717	13,969	5,136
1886-1890.....	87,059	11,707	18,319	663	483	9,926	2,013	12,260	15,664	5,376
1891-1895.....	98,628	18,583	36,707	776	4,673	7,069	3,054	15,853	16,729	6,081
1896-1900.....	96,832	13,833	65,432	1,385	15,077	6,080	4,796	12,936	26,018	5,609
1901-1905.....	147,174	28,215	114,840	2,055	30,760	8,465	5,043	18,150	39,045	7,973
1906-1910.....	153,171	45,945	185,524	4,717	47,483	12,562	4,564	24,766	62,736	13,426
1911-1915.....	179,038	78,668	241,254	7,611	82,712	24,321	10,341	32,000	102,360	20,967
1915-1920 <sup>1</sup> .....	428,107	149,070	346,984	15,930	198,686	88,161	21,879	40,133	294,375	61,893
1921-1925.....	391,342	167,731	528,904	30,066	162,606	77,517	27,631	46,066	211,729	76,869
1884.....	81,868	10,785	20,455	1,120	445	7,364	2,906	918	16,763	4,369
1885.....	79,148	8,689	12,679	1,157	467	8,657	2,083	9,918	14,745	4,346
1886.....	82,560	8,115	16,967	757	410	8,766	2,310	10,183	12,492	5,052
1887.....	79,520	9,652	18,903	705	450	9,548	1,461	11,704	14,172	5,032
1888.....	81,257	11,618	15,703	716	476	10,357	1,632	12,721	18,645	5,534
1889.....	83,829	14,492	15,576	723	489	11,290	2,181	13,100	16,613	5,867
1890.....	108,127	14,658	24,447	416	588	9,726	2,481	13,590	19,399	5,859
1891.....	109,107	20,267	33,772	648	732	8,809	2,340	15,303	16,610	5,933
1892.....	131,253	18,910	35,386	1,317	730	7,688	3,678	14,976	17,928	5,297
1893.....	77,838	21,790	37,476	863	3,022	7,511	4,084	18,448	15,903	6,977
1894.....	81,529	18,088	35,012	681	9,246	4,478	3,610	15,486	16,700	6,284
1895.....	68,413	13,862	41,887	370	9,638	6,868	1,658	15,053	16,604	5,915
1896.....	80,987	13,471	36,397	603	10,799	5,968	1,293	15,546	22,928	6,650
1897.....	101,494	16,619	58,198	779	10,818	7,189	2,810	11,528	22,273	6,381
1898.....	112,827	9,664	68,429	1,166	14,571	5,385	7,489	10,141	23,606	5,002
1899.....	87,993	11,918	78,477	2,921	14,989	5,449	7,675	12,154	28,725	4,657
1900.....	115,559	17,491	85,658	1,454	24,206	6,959	5,212	15,310	32,559	5,353
1901.....	152,777	20,462	101,857	954	23,629	6,726	10,030	14,532	33,742	6,232
1902.....	134,437	23,763	96,722	969	25,121	8,333	5,093	16,861	34,735	7,630
1903.....	149,073	28,321	104,121	1,611	28,696	8,973	4,551	20,122	40,328	8,566
1904.....	145,595	34,037	145,316	1,848	35,601	7,980	2,322	21,088	41,688	8,480
1905.....	150,937	33,933	126,182	4,992	40,755	10,413	3,221	18,145	44,733	8,967
1906.....	150,479	39,465	166,318	5,019	44,207	10,132	2,581	22,210	57,750	10,998
1907.....	170,562	46,047	237,308	7,029	48,750	11,744	4,013	25,017	64,865	11,515
1908.....	159,456	42,786	161,352	5,694	40,460	11,316	4,925	26,172	61,108	14,537
1909.....	144,982	45,713	189,464	3,355	42,891	13,065	4,775	23,671	60,161	14,172
1910.....	140,377	55,712	173,179	2,488	55,109	16,553	6,529	26,761	69,794	15,909
1911.....	172,835	66,722	220,505	3,531	67,279	18,973	6,916	30,586	81,898	17,031
1912.....	149,161	75,090	218,146	4,310	81,543	20,506	6,665	28,749	96,941	16,815
1913.....	160,980	82,399	281,458	7,821	103,103	20,405	4,869	32,537	112,641	19,687
1914.....	193,840	89,383	255,768	12,245	87,676	30,306	8,688	38,631	102,573	26,347
1915.....	209,373	79,745	230,392	10,148	73,959	31,415	23,565	29,498	117,747	24,966
1915 (6 mos.).....	91,583	35,976	92,370	2,814	50,015	20,126	7,835	19,018	84,852	14,225
1916.....	266,662	92,041	252,545	8,373	184,619	41,421	3,990	24,006	222,663	32,575
1917.....	320,891	116,249	220,229	13,979	212,820	105,612	4,419	27,008	279,143	54,131
1918.....	399,997	124,258	226,834	14,013	208,340	99,915	69,019	40,301	379,158	57,231
1919.....	563,073	177,286	487,183	17,704	199,051	96,378	6,524	45,804	297,029	74,896
1920.....	712,380	274,073	649,253	30,730	237,930	121,436	25,800	64,504	356,220	107,361
1921.....	423,043	110,283	452,911	18,858	154,169	59,241	45,230	41,491	177,901	63,052
1922.....	353,282	129,756	417,142	21,160	146,021	70,283	38,506	46,914	205,977	65,442
1923.....	301,416	171,620	530,540	32,962	178,818	70,316	13,997	45,555	226,590	90,019
1924.....	411,691	205,974	579,509	41,487	156,256	72,247	26,415	45,739	195,902	81,537
1925.....	467,279	221,023	639,418	35,862	177,764	115,496	14,259	50,630	252,274	84,247
1926.....	413,793	238,805	533,825	38,906	191,676	125,668	17,843	50,478	272,375	101,682
1927.....	370,607	211,684	554,893	35,883	129,904	137,936	17,718	51,585	279,907	91,314
1928.....	375,837	211,733	682,346	30,801	223,938	144,928	9,002	50,381	328,439	92,099

<sup>1</sup> Period July 1, 1915, to Dec. 31, 1920.

# No. 530.—EXPORTS (INCLUDING REEXPORTS) AND GENERAL IMPORTS OF MERCHANDISE, BY PRINCIPAL CUSTOMS DISTRICTS—Continued

[All figures in thousands of dollars]

Year or yearly average	San Francisco		Washington		Year or yearly average	San Francisco		Washington	
	Ex- ports	Im- ports	Ex- ports	Im- ports		Ex- ports	Im- ports	Ex- ports	Im- ports
1860.....	4,868	7,367	63	-----	1899.....	30,215	35,747	15,200	7,240
1865.....	9,988	15,802	633	12	1900.....	40,368	47,870	17,903	7,149
1870.....	13,992	15,983	428	35	1901.....	34,597	35,162	20,679	6,721
1871-1875.....	19,476	25,459	497	30	1902.....	38,184	35,103	33,789	11,971
1876-1880.....	27,718	29,798	486	33	1903.....	33,503	36,454	32,500	12,177
1881-1885.....	41,740	39,109	1,647	109	1904.....	32,547	37,543	22,730	11,285
1886-1890.....	33,035	44,344	2,708	417	1905.....	49,924	46,676	43,843	7,378
1891-1895.....	32,365	43,557	5,627	1,068	1906.....	39,915	44,433	49,235	13,614
1896-1900.....	36,607	40,443	13,948	6,399	1907.....	33,027	54,095	43,659	25,353
1901-1905.....	37,751	38,188	30,708	9,907	1908.....	28,000	48,251	44,033	22,209
1906-1910.....	32,758	49,226	38,567	23,409	1909.....	31,669	49,998	25,788	26,960
1911-1915.....	60,154	63,760	87,711	50,200	1910.....	31,181	49,351	30,121	28,910
1915-1920 <sup>1</sup> .....	186,317	197,613	222,702	206,862	1911.....	40,625	53,885	39,361	36,655
1921-1925.....	158,275	155,500	110,361	214,213	1912.....	49,250	59,235	63,746	39,011
1894.....	37,051	35,858	1,955	138	1913.....	66,021	62,502	62,548	51,474
1895.....	38,116	35,040	3,185	238	1914.....	63,375	67,111	55,012	55,392
1896.....	30,228	37,142	2,128	661	1915.....	81,501	76,068	67,888	68,467
1897.....	32,711	40,708	1,770	348	1915 (6 mos.).....	41,807	42,290	46,161	55,933
1898.....	27,685	46,693	2,251	407	1916.....	126,758	117,128	200,448	161,780
1899.....	37,673	48,426	4,069	362	1917.....	175,136	231,979	196,932	289,078
1890.....	36,876	48,751	3,326	305	1918.....	214,695	245,519	296,166	300,954
1891.....	40,169	50,943	5,729	477	1919.....	240,518	238,027	292,274	195,919
1892.....	40,737	47,136	6,566	573	1920.....	225,828	211,928	192,880	134,079
1893.....	31,144	45,291	5,093	840	1921.....	129,111	97,129	90,327	58,539
1894.....	24,903	38,147	4,942	1,230	1922.....	145,099	170,815	90,071	218,218
1895.....	24,873	36,270	5,805	2,222	1923.....	160,432	166,685	116,088	262,156
1896.....	31,583	41,400	6,855	5,484	1924.....	173,442	146,335	134,760	270,284
1897.....	39,648	34,376	11,865	7,066	1925.....	183,262	196,537	120,557	261,870
1898.....	41,224	42,823	17,919	5,058	1926.....	186,773	210,139	147,570	261,880
					1927.....	174,555	199,999	129,513	239,284
					1928.....	201,265	198,275	150,817	229,024

<sup>1</sup> Period July 1, 1915, to Dec. 31, 1920.

# No. 531.—EXPORTS (INCLUDING REEXPORTS) AND GENERAL IMPORTS OF MERCHANDISE, AND DUTIES COLLECTED, BY CUSTOMS DISTRICTS

NOTE.—“Duties collected” are as reported to the Treasury Department by collectors, subject in certain cases to subsequent refund as well as drawback. These figures are somewhat higher than duties as calculated on the basis of imports for consumption as shown in Table 515

[All figures in thousands of dollars]

Customs district	Exports, domestic and foreign			Imports			Duties collected
	1926	1927	1928	1926	1927	1928	
<b>Total</b> .....	4, 808, 660	4, 865, 375	5, 128, 356	4, 430, 888	4, 184, 742	4, 091, 444	561, 894
<b>North Atlantic coast</b> .....	1, 812, 259	1, 868, 434	1, 912, 048	2, 773, 069	2, 580, 046	2, 482, 631	411, 066
Maine and New Hampshire.....	11, 815	9, 142	8, 141	31, 157	30, 346	28, 584	1, 408
Massachusetts.....	41, 283	42, 181	45, 470	305, 879	288, 499	276, 512	36, 086
Rhode Island.....	118	81	108	7, 424	7, 238	4, 890	1, 661
Connecticut.....	9	9	7, 822	6, 680	6, 890	6, 890	987
New York.....	1, 662, 538	1, 726, 110	1, 769, 904	2, 224, 964	2, 042, 783	1, 950, 058	324, 311
Philadelphia.....	97, 005	90, 911	88, 424	195, 823	204, 500	215, 692	46, 643
<b>South Atlantic coast</b> .....	486, 289	428, 708	378, 326	180, 063	194, 457	194, 499	32, 686
Maryland.....	129, 348	101, 323	98, 974	106, 241	108, 967	110, 026	10, 109
Virginia.....	209, 520	174, 229	182, 595	21, 599	23, 922	32, 818	5, 563
North Carolina.....	9, 763	12, 288	11, 178	8, 001	20, 546	7, 381	8, 277
South Carolina.....	35, 485	36, 082	18, 981	12, 067	11, 702	12, 554	600
Georgia.....	104, 594	97, 228	60 199	19, 490	18, 056	18, 394	5, 925
Porto Rico.....	7, 580	7, 553	6, 398	12, 665	11, 264	13, 326	1 2, 211
<b>Gulf coast</b> .....	1, 120, 944	1, 100, 918	1, 227, 757	325, 614	285, 373	284, 576	29, 367
Florida.....	56, 563	62, 404	54, 264	35, 913	26, 914	28, 340	3, 869
Mobile.....	42, 157	54, 011	48, 559	9, 717	8, 808	10, 819	993
New Orleans.....	413, 793	370, 607	375, 937	238, 505	211, 684	211, 783	25, 429
Sabine.....	74, 587	59, 004	66, 451	2, 273	2, 085	3, 333	6
Galveston.....	533, 825	554, 893	682, 346	38, 906	35, 883	30, 801	9, 070
<b>Mexican border</b> .....	72, 831	77, 120	95, 464	26, 317	27, 623	30, 394	2, 958
San Antonio.....	45, 898	56, 633	75, 152	4, 090	5, 891	6, 715	858
El Paso.....	13, 449	9, 971	10, 131	8, 747	7, 190	6, 081	696
Arizona.....	13, 484	10, 516	10, 182	12, 880	14, 541	17, 598	1, 404
<b>Pacific coast</b> .....	518, 888	506, 125	561, 007	546, 102	510, 569	504, 695	27, 268
Washington.....	147, 570	129, 513	150, 817	261, 880	239, 284	229, 024	4, 893
Oregon.....	78, 494	78, 783	63, 879	13, 714	14, 208	12, 124	1, 322
San Francisco.....	186, 773	174, 555	201, 265	210, 139	199, 999	198, 275	12, 549
Los Angeles.....	103, 645	120, 573	141, 899	49, 571	47, 140	54, 351	6, 581
Alaska.....	522	484	623	544	766	559	26
Hawaii.....	1, 884	2, 268	2, 524	10, 254	9, 172	10, 361	1, 895
<b>Northern border</b> .....	759, 473	856, 284	924, 741	543, 463	555, 002	564, 119	39, 259
Vermont.....	55, 063	50, 628	61, 060	47, 131	47, 680	54, 905	1, 739
St. Lawrence.....	72, 432	76, 544	77, 987	128, 408	132, 392	127, 984	2, 115
Rochester.....	9, 022	8, 345	12, 576	8, 292	8, 249	8, 430	1, 845
Buffalo.....	191, 676	219, 904	223, 938	125, 668	137, 936	144, 928	6, 310
Ohio.....	31, 309	31, 978	35, 385	22, 809	19, 203	23, 657	4, 236
Michigan.....	272, 375	279, 907	328, 439	101, 682	91, 314	92, 099	4, 767
Chicago.....	17, 843	17, 718	9, 002	50, 478	51, 585	50, 381	15, 693
Wisconsin.....	1, 476	3, 069	3, 467	6, 133	6, 813	5, 735	881
Duluth and Superior.....	47, 683	101, 141	84, 265	20, 425	22, 310	23, 553	413
Dakota.....	53, 853	60, 738	79, 267	28, 998	34, 786	29, 344	959
Montana and Idaho.....	6, 736	6, 312	9, 354	3, 468	2, 733	3, 103	301
<b>Interior</b> .....				36, 232	31, 673	30, 530	8, 262
Pittsburgh.....				11, 356	8, 098	7, 355	2, 401
Kentucky.....				657	420	1, 302	492
Tennessee.....				1, 403	479	543	145
Indiana.....				1, 551	1, 955	1, 793	617
Iowa.....				250	192	169	86
Omaha.....				953	1, 471	682	649
St. Louis.....				11, 890	10, 838	10, 226	2, 979
Minnesota.....				6, 759	7, 274	7, 413	1, 570
Colorado.....				1, 308	872	918	271
Utah and Nevada.....				105	75	99	52
<b>Parcel post</b> .....	27, 977	27, 785	29, 014				

1 Total duties collected This amount less the cost of collection is turned into the island treasury.



# No. 532.—IN TRANSIT AND TRANSSHIPMENT TRADE OF THE UNITED STATES: BY CONTINENTS AND PRINCIPAL COUNTRIES

[Values in thousands of dollars]

Year ended Dec. 31	Received from	Shipped to	Received from	Shipped to	Received from	Shipped to	Received from	Shipped to
	North America		South America		Europe		Asia and Oceania	
1920.....	193,222	92,107	9,658	11,149	35,487	141,212	26,645	18,693
1921.....	194,954	41,959	6,023	6,816	19,884	175,432	17,258	12,729
1922.....	233,412	50,504	10,032	8,199	19,912	204,699	12,457	10,789
1923.....	298,846	70,536	14,978	16,325	28,245	246,098	17,139	21,422
1924.....	252,056	67,188	16,543	18,058	22,350	194,974	15,596	21,877
1925.....	332,984	68,471	15,753	28,160	27,274	262,640	15,954	26,832
1926.....	300,070	82,115	14,995	32,413	25,018	199,952	24,097	25,994
1927.....	371,419	91,285	17,050	30,908	30,552	274,524	14,735	29,631
1928.....	286,994	174,215	15,811	23,117	101,755	198,741	19,719	22,915
	Africa		Canada		Mexico		Cuba	
1920.....	1,194	3,045	157,657	51,600	8,842	7,921	11,445	16,928
1921.....	486	1,669	181,221	21,419	3,603	5,604	3,937	7,586
1922.....	513	2,133	214,662	27,978	6,516	6,913	5,464	8,693
1923.....	1,145	5,572	273,861	36,755	8,018	7,987	6,728	14,630
1924.....	651	5,529	226,410	32,271	9,383	9,803	6,001	13,841
1925.....	905	6,768	308,133	24,701	9,165	9,731	6,953	18,076
1926.....	1,614	6,219	275,891	37,748	7,849	11,574	7,318	17,554
1927.....	1,807	9,215	338,611	38,069	13,339	12,502	10,010	23,427
1928.....	2,405	7,756	252,359	132,403	15,554	11,966	8,455	13,428
	Argentina		Peru		United Kingdom		Belgium	
1920.....	3,973	2,672	1,642	741	19,347	53,917	779	12,251
1921.....	602	2,342	2,692	340	11,191	90,022	564	9,935
1922.....	1,446	3,378	3,619	169	11,283	101,437	874	12,161
1923.....	3,683	7,218	6,142	285	16,602	104,018	798	15,509
1924.....	3,342	5,197	6,621	474	11,273	96,822	808	14,442
1925.....	2,378	12,206	7,500	968	13,050	121,725	1,085	16,453
1926.....	3,610	10,446	5,349	1,287	10,875	92,081	1,613	16,139
1927.....	3,906	13,117	7,211	1,408	11,177	149,925	3,277	13,682
1928.....	4,996	8,536	3,743	1,748	61,832	100,773	3,359	12,186
	France		Netherlands		Germany		Italy	
1920.....	4,047	11,306	1,934	11,446	988	6,712	2,266	9,135
1921.....	1,442	10,712	1,623	8,971	1,365	6,791	928	19,715
1922.....	1,463	11,419	1,941	16,174	1,987	7,606	940	27,539
1923.....	2,450	16,526	2,140	28,653	1,707	18,198	1,633	27,464
1924.....	1,751	13,495	2,776	13,521	2,047	21,858	1,348	15,544
1925.....	2,057	14,477	3,808	17,546	2,969	30,925	2,021	22,671
1926.....	1,712	7,832	3,038	22,521	3,842	32,922	1,700	12,670
1927.....	1,630	14,098	3,645	22,128	5,482	29,235	1,953	18,950
1928.....	4,813	13,588	6,463	14,123	11,199	27,025	4,718	12,614

# No. 533.—IN TRANSIT AND TRANSSHIPMENT TRADE: BY CUSTOMS REGIONS THROUGH WHICH SHIPPED

[Values in thousands of dollars]

Year ended Dec 31	Total	Atlantic Coast				Gulf coast	Mexican border	Pacific coast	Northern border
		Total <sup>1</sup>	Maine and New Hampshire	New York	Philadelphia				
1920.....	266,207	199,185	53,859	117,595	9,783	2,630	2,911	17,836	43,644
1921.....	238,605	209,753	29,864	137,835	22,845	347	2,628	10,103	15,774
1922.....	276,325	245,141	18,306	155,074	30,110	857	3,406	10,896	16,025
1923.....	360,354	313,754	30,787	215,601	30,179	1,176	2,516	14,546	28,361
1924.....	307,197	261,886	15,561	196,345	21,320	580	4,491	17,681	22,858
1925.....	392,871	356,535	13,491	275,581	38,497	170	3,006	16,595	16,565
1926.....	396,693	314,045	15,296	241,480	24,527	235	3,912	21,987	25,915
1927.....	435,564	353,512	10,575	266,704	26,774	2,265	5,226	22,760	71,791
1928.....	426,744	307,778	5,372	248,764	17,300	8,380	3,404	15,770	91,411

<sup>1</sup>Includes districts not specified.

## No. 534.—VALUE OF PRINCIPAL ARTICLES

NOTE.—Specie values except for 1865, and 1870-1878; for those years mixed gold and currency values. thereafter. In some cases blanks represent entire absence

[All figures in thou

Year or yearly average	Meat products	Animal fats and oils	Leather	Rye (including flour)	Wheat (including flour)	Oil cake and meal	Fruits and nuts	Rubber and manufactures	Naval stores, gums, and resins	Tobacco, unmanufactured
1821					4, 476				315	5, 649
1830					6, 132		24		356	5, 586
1840					11, 779		55		666	9, 884
1850					7, 742		25		1, 372	9, 951
1860	8, 080	6, 200	693		19, 525	1, 609	206	241	3, 886	15, 907
1865	20, 696	14, 473	669	169	46, 905	2, 267	415	291	343	41, 625
1870	11, 630	9, 909	111	217	68, 341	3, 419	543	186	3, 277	21, 100
1871-1875	33, 937	25, 773	3, 785	710	82, 188	4, 195	1, 138	212	5, 192	24, 475
1876-1880	66, 660	35, 496	7, 256	2, 194	133, 946	5, 268	1, 831	262	4, 511	23, 580
1881-1885	69, 344	37, 492	7, 374	2, 185	157, 600	6, 551	2, 893	560	6, 364	19, 407
1886-1890	59, 734	35, 168	9, 167	380	106, 331	7, 143	3, 724	857	6, 009	23, 085
1891-1895	82, 184	51, 133	11, 931	2, 570	147, 211	8, 565	4, 075	1, 450	7, 536	22, 896
1896-1900	100, 858	53, 370	18, 703	4, 075	148, 176	12, 300	8, 394	2, 280	9, 934	25, 269
1901-1905	110, 948	70, 933	24, 019	1, 311	131, 029	19, 470	14, 778	4, 605	13, 898	29, 891
1906-1910	93, 563	87, 326	31, 234	989	117, 768	23, 472	16, 531	7, 831	19, 438	33, 188
1911-1915	81, 315	83, 806	44, 656	3, 613	172, 788	25, 570	31, 865	13, 362	21, 552	46, 064
1915-1920 <sup>1</sup>	401, 251	166, 868	110, 215	52, 009	512, 963	21, 978	61, 501	46, 430	20, 417	139, 509
1921-1925	139, 833	146, 401	44, 287	39, 475	321, 864	24, 695	82, 869	39, 003	22, 379	164, 596
1884	64, 294	36, 372	7, 024	4, 342	126, 166	7, 115	1, 751	635	7, 005	17, 766
1885	63, 296	31, 732	8, 539	2, 016	125, 079	6, 674	3, 516	686	4, 985	22, 026
1886	54, 894	27, 198	7, 553	146	88, 706	7, 054	3, 310	664	4, 944	27, 158
1887	53, 179	32, 105	9, 170	228	142, 667	7, 310	2, 670	834	5, 861	25, 948
1888	52, 462	32, 354	8, 423	61	111, 019	6, 424	3, 510	867	5, 930	21, 936
1889	59, 727	35, 982	9, 515	172	86, 949	6, 928	5, 072	832	5, 966	18, 901
1890	78, 409	48, 202	11, 175	1, 294	102, 312	8, 000	4, 060	1, 090	7, 444	21, 480
1891	81, 965	51, 011	12, 023	230	106, 126	7, 452	2, 435	1, 236	8, 192	21, 034
1892	84, 048	48, 841	10, 518	11, 455	236, 761	9, 713	6, 626	1, 416	7, 990	20, 670
1893	80, 842	50, 967	10, 695	1, 013	169, 029	9, 689	3, 919	1, 609	7, 287	22, 892
1894	81, 698	57, 311	12, 779	136	128, 679	8, 807	2, 424	1, 472	6, 791	24, 085
1895	82, 369	47, 534	13, 640	17	95, 458	7, 166	4, 972	1, 517	7, 420	25, 799
1896	82, 387	46, 719	17, 765	456	91, 735	7, 950	5, 679	1, 969	8, 844	24, 571
1897	89, 017	42, 595	16, 431	3, 675	115, 835	9, 611	7, 739	1, 927	9, 215	24, 711
1898	105, 989	54, 771	17, 796	8, 838	214, 948	12, 582	9, 013	2, 058	9, 155	22, 172
1899	110, 410	60, 579	19, 725	5, 951	177, 363	14, 549	7, 897	2, 321	9, 983	25, 467
1900	116, 494	62, 187	21, 797	1, 457	140, 998	16, 806	11, 643	3, 124	12, 474	29, 422
1901	123, 367	68, 226	21, 321	1, 333	166, 281	18, 724	10, 827	3, 659	12, 587	27, 656
1902	122, 912	72, 985	22, 350	1, 590	178, 537	19, 943	8, 719	4, 032	11, 734	27, 104
1903	106, 199	72, 258	23, 514	3, 157	161, 552	19, 839	18, 058	4, 674	12, 919	35, 251
1904	103, 229	71, 040	24, 852	452	104, 745	17, 069	20, 679	5, 149	16, 145	28, 641
1905	99, 035	70, 158	28, 058	21	44, 082	21, 777	15, 607	5, 509	16, 107	28, 801
1906	114, 670	92, 110	29, 317	925	87, 864	23, 992	15, 274	6, 544	20, 076	28, 808
1907	107, 571	94, 098	32, 058	573	122, 390	26, 416	17, 588	7, 429	21, 687	33, 387
1908	102, 045	92, 076	26, 970	2, 201	163, 907	21, 867	14, 339	7, 574	21, 642	34, 727
1909	81, 773	86, 875	30, 413	1, 064	119, 252	25, 836	16, 568	7, 433	15, 101	30, 903
1910	61, 793	71, 769	37, 414	184	95, 428	19, 251	18, 886	10, 176	18, 682	38, 115
1911	66, 391	85, 665	37, 200	27	71, 427	19, 631	24, 498	12, 453	25, 023	39, 255
1912	71, 874	85, 512	41, 798	22	79, 477	28, 229	30, 964	12, 823	26, 755	43, 252
1913	68, 018	88, 573	42, 384	1, 282	142, 208	29, 444	37, 079	14, 325	26, 471	49, 354
1914	68, 443	80, 562	36, 069	1, 586	142, 408	21, 668	31, 850	12, 441	19, 882	53, 964
1915	131, 550	78, 720	65, 229	15, 150	428, 422	25, 879	34, 933	14, 768	11, 127	44, 454
1915 (6 mos) <sup>2</sup>	90, 466	33, 808	42, 079	7, 556	146, 718	14, 978	22, 549	15, 841	5, 430	30, 454
1916	198, 000	85, 002	100, 498	19, 380	313, 240	33, 253	37, 345	33, 934	16, 289	62, 833
1917	273, 908	99, 666	80, 817	27, 960	384, 272	15, 810	35, 332	34, 788	14, 401	45, 574
1918	667, 527	181, 421	55, 127	31, 065	505, 266	2, 785	32, 373	31, 501	10, 236	122, 918
1919	697, 707	326, 290	218, 784	74, 211	650, 351	36, 041	126, 265	53, 861	31, 434	259, 986
1920	279, 270	191, 587	108, 876	125, 878	821, 448	18, 012	84, 390	85, 437	34, 503	245, 532
1921	157, 122	146, 955	31, 787	44, 589	550, 752	24, 489	70, 157	30, 786	11, 449	205, 133
1922	140, 175	118, 215	45, 471	46, 075	291, 821	19, 898	75, 864	34, 009	18, 510	146, 489
1923	163, 677	158, 520	42, 374	29, 021	204, 641	19, 831	68, 619	36, 972	24, 820	153, 439
1924	121, 156	159, 017	49, 188	40, 204	328, 324	27, 590	97, 689	40, 622	25, 309	164, 130
1925	127, 033	150, 298	52, 155	37, 484	233, 784	31, 666	102, 015	52, 330	31, 809	153, 787
1926	106, 837	136, 111	49, 815	12, 379	284, 872	26, 458	111, 797	70, 793	36, 865	136, 919
1927	71, 011	116, 760	54, 003	39, 913	324, 836	30, 186	121, 665	60, 631	34, 335	139, 667
1928	67, 722	119, 442	55, 178	17, 567	193, 743	27, 198	129, 324	69, 545	26, 433	154, 465

<sup>1</sup> Includes semimanufactures.

<sup>2</sup> Average for period July 1, 1915, to Dec 31, 1920.

## OF UNITED STATES MERCHANDISE EXPORTED

Figures are for fiscal years ended Sept. 30, through 1840, and June 30, 1850 through 1915; calendar years of trade, in other cases the item was not segregated

sands of dollars]

Cotton, raw	Cotton manu- factures <sup>1</sup>	Saw- mill prod- ucts	Other wood manu- factures	Coal and coke	Petro- leum and prod- ucts	Iron and steel- mill prod- ucts	Copper and manu- factures	Ma- chinery, all classes	Auto- mobiles includ- ing en- gines and parts	Year or yearly average
20, 157		1, 513					27			1821.
29, 875	1, 318	1, 650	426				37			1830.
63, 870	3, 550	2, 072	921				87			1840
71, 985	4, 734	2, 545	2, 279	167			105			1850
191, 807	10, 935	3, 884	6, 148	741			1, 664			1860.
6, 836	3, 452	7, 020	11, 261	1, 371	15, 768	1, 190	1, 545	7, 222		1865.
227, 028	3, 787	4, 660	7, 886	1, 306	32, 669	539	1, 042	5, 783		1870.
205, 624	3, 196	6, 749	9, 108	2, 538	36, 913	1, 115	749	8, 373		1871-1875.
183, 530	10, 047	7, 840	7, 924	2, 474	43, 808	1, 185	2, 564	8, 357		1876-1880.
218, 763	12, 693	11, 796	9, 347	4, 077	47, 753	1, 322	3, 951	13, 552		1881-1885.
224, 614	12, 423	13, 376	8, 846	5, 747	51, 151	1, 922	7, 309	13, 662		1886-1890.
230, 743	13, 354	14, 782	9, 694	10, 184	49, 344	3, 241	14, 392	22, 061		1891-1895.
220, 894	20, 494	22, 390	13, 863	14, 005	68, 766	20, 438	36, 745	50, 125		1896-1900.
335, 443	31, 333	34, 447	17, 413	26, 121	82, 260	32, 759	54, 942	77, 958		1901-1905.
437, 582	35, 141	50, 754	21, 075	38, 825	103, 803	54, 297	92, 334	113, 983	6, 292	1906-1910.
537, 044	52, 525	61, 379	24, 687	58, 648	137, 058	96, 313	123, 655	158, 897	35, 805	1911-1915.
768, 361	214, 697	60, 630	36, 556	151, 590	347, 396	491, 191	208, 909	354, 216	157, 775	1915-1920. <sup>2</sup>
804, 985	133, 052	85, 078	30, 846	131, 112	405, 051	166, 776	129, 761	320, 988	177, 164	1921-1925.
197, 015	11, 885	12, 455	9, 749	5, 036	48, 366	1, 551	5, 596	16, 386		1884.
201, 962	11, 837	11, 017	8, 401	4, 581	51, 983	1, 422	10, 187	10, 970		1885.
205, 086	13, 960	11, 040	8, 112	4, 207	51, 929	1, 372	5, 672	10, 102		1886.
206, 222	14, 929	10, 685	7, 710	4, 561	48, 858	1, 465	3, 727	10, 598		1887.
223, 017	13, 013	12, 532	8, 331	6, 345	49, 211	1, 925	8, 877	12, 156		1888.
237, 775	10, 213	15, 977	10, 205	6, 714	51, 943	2, 056	9, 867	15, 934		1889.
250, 969	9, 999	10, 646	9, 872	6, 910	53, 812	2, 793	8, 403	19, 521		1890.
290, 713	13, 605	14, 887	9, 042	8, 434	55, 741	3, 189	11, 875	21, 110		1891.
258, 461	13, 226	14, 721	9, 056	8, 761	48, 771	2, 871	13, 263	21, 475		1892.
188, 771	11, 809	14, 851	9, 499	10, 185	46, 658	3, 358	9, 117	21, 809		1893.
210, 869	14, 341	14, 463	10, 561	12, 093	45, 320	3, 340	22, 133	21, 687		1894.
204, 901	13, 790	14, 989	10, 313	11, 445	50, 230	3, 446	15, 573	24, 224		1895.
190, 056	16, 837	17, 315	11, 836	11, 146	66, 790	4, 692	21, 754	29, 313		1896.
230, 891	21, 038	22, 038	13, 642	11, 556	67, 592	10, 782	33, 681	37, 738		1897.
230, 442	17, 024	20, 393	13, 393	12, 293	62, 156	18, 973	33, 005	44, 438		1898.
210, 090	23, 587	23, 691	13, 939	14, 294	63, 078	29, 207	36, 424	61, 117		1899.
242, 989	24, 003	28, 614	16, 506	20, 737	84, 214	38, 534	58, 862	78, 020		1900.
315, 105	20, 272	32, 370	15, 415	23, 751	77, 970	40, 455	44, 614	73, 489		1901.
291, 598	32, 108	37, 546	16, 330	22, 486	81, 162	25, 686	43, 820	67, 510	949	1902.
317, 065	32, 216	33, 681	19, 110	23, 119	76, 665	21, 418	40, 595	76, 202	1, 207	1903.
372, 049	22, 404	42, 106	18, 256	30, 044	87, 920	30, 832	58, 119	83, 841	1, 896	1904.
381, 399	49, 666	36, 533	17, 956	31, 387	87, 582	45, 402	87, 564	88, 748	2, 481	1905.
401, 006	52, 944	44, 115	20, 511	30, 652	92, 850	51, 183	83, 179	108, 379	3, 497	1906.
481, 278	32, 305	58, 237	20, 969	37, 741	93, 887	55, 451	96, 601	125, 255	5, 502	1907.
437, 788	25, 178	53, 339	22, 825	42, 074	112, 857	57, 820	105, 873	120, 581	5, 278	1908.
417, 391	31, 879	44, 213	19, 879	40, 069	112, 446	40, 030	86, 708	98, 983	5, 992	1909.
450, 447	33, 397	53, 368	21, 193	43, 590	106, 977	60, 403	89, 309	116, 718	11, 190	1910.
585, 319	40, 852	62, 947	24, 384	48, 314	105, 494	78, 790	104, 908	151, 205	15, 509	1911.
565, 849	50, 770	66, 811	25, 667	55, 587	122, 789	102, 385	117, 083	160, 645	26, 435	1912.
647, 357	51, 510	76, 955	30, 764	68, 416	149, 256	124, 222	143, 124	194, 738	32, 982	1913.
510, 475	49, 246	70, 095	26, 326	62, 711	161, 085	90, 920	151, 472	167, 909	34, 591	1914.
376, 218	70, 247	30, 085	16, 296	58, 211	146, 668	85, 247	101, 690	119, 990	69, 610	1915.
157, 548	48, 714	19, 086	9, 959	37, 236	83, 264	100, 894	70, 033	94, 935	59, 647	1915 (6 mos.). <sup>2</sup>
545, 229	127, 052	33, 061	20, 818	72, 500	220, 089	375, 975	236, 859	278, 071	123, 064	1916.
575, 304	157, 267	40, 302	26, 602	118, 956	273, 906	644, 924	362, 871	355, 658	170, 476	1917.
674, 123	179, 106	54, 121	28, 095	119, 742	369, 542	632, 219	360, 732	269, 951	100, 889	1918.
1, 137, 371	270, 235	76, 884	51, 239	125, 505	374, 530	449, 939	130, 790	361, 900	156, 426	1919.
1, 136, 409	398, 458	110, 013	64, 347	359, 805	589, 348	497, 601	141, 717	587, 671	303, 262	1920.
534, 242	115, 539	52, 532	28, 040	170, 983	399, 871	236, 126	97, 898	408, 465	83, 749	1921.
673, 250	136, 679	67, 890	34, 485	95, 562	344, 255	136, 218	103, 874	234, 628	103, 202	1922.
807, 103	136, 188	103, 378	33, 347	166, 014	365, 625	167, 065	129, 220	282, 296	170, 612	1923.
950, 581	130, 687	101, 999	32, 248	115, 966	442, 554	150, 369	156, 646	311, 540	209, 872	1924.
1, 059, 751	146, 167	99, 589	36, 109	107, 035	472, 952	144, 102	161, 166	368, 009	118, 386	1925.
814, 429	128, 768	97, 444	37, 884	203, 884	554, 534	174, 101	141, 204	400, 046	320, 179	1926.
826, 306	133, 186	107, 574	38, 089	109, 687	485, 903	160, 547	150, 214	436, 349	338, 528	1927.
920, 008	134, 642	108, 798	37, 525	99, 518	525, 852	179, 649	169, 831	497, 284	500, 177	1928.

<sup>1</sup> July to December.

## No. 535.—VALUE OF PRINCIPAL COMMODITIES

NOTE.—Specie values. Figures represent general imports; they are for fiscal years ended Sept. 30  
entire absence of trade; in other

[All figures in thou

Year or yearly average	Hides and skins	Furs, and manu- factures	Fruits and nuts	Vegetable oils ex- pressed and fats	Coffee	Sugar <sup>1</sup>	Rub- ber, crude	Tobac- co, un- manu- factured	Cotton manu- factures <sup>2</sup>	Burlaps
1821	893	224	181	-----	4,490	3,554	-----	-----	7,391	-----
1830	2,410	306	520	18	4,227	4,631	-----	-----	7,865	-----
1840	2,756	423	1,405	263	8,546	5,581	-----	-----	6,504	-----
1850	4,799	1,014	1,191	922	11,235	7,556	-----	272	20,781	-----
1860	10,525	1,838	4,804	1,619	21,884	31,079	1,427	1,366	33,216	-----
1865	4,550	2,309	2,265	634	11,242	27,326	1,223	552	9,224	-----
1870	14,402	2,236	7,417	2,153	24,235	56,924	3,460	2,534	23,580	-----
1871-1875	16,649	3,704	10,987	1,097	43,737	76,754	5,391	4,725	31,263	-----
1876-1880	18,237	4,680	11,486	1,230	54,011	73,678	5,998	4,000	22,118	-----
1881-1885	25,179	7,286	17,880	1,697	48,257	87,906	12,732	6,188	31,739	-----
1886-1890	24,373	7,161	19,584	1,898	62,504	83,614	13,791	11,176	28,858	4,552
1891-1895	25,208	9,707	21,322	3,025	98,220	105,946	17,763	12,810	29,482	5,828
1896-1900	39,075	9,224	17,661	3,716	67,830	88,795	24,506	11,355	33,694	8,021
1901-1905	56,206	15,003	23,034	7,350	69,450	77,440	34,823	16,743	47,839	14,368
1906-1910	82,519	21,469	33,692	14,002	73,496	92,286	60,687	24,905	67,851	22,730
1911-1915	102,967	19,341	43,033	26,554	108,970	118,230	82,736	31,576	63,049	30,749
1915-1920 <sup>3</sup>	201,517	47,620	61,755	84,462	165,265	393,906	192,149	51,012	65,816	62,545
1921-1925	93,067	79,840	75,499	59,652	205,792	295,389	192,922	64,831	86,568	60,406
1884	22,351	8,178	19,812	1,677	49,687	98,263	13,736	5,962	29,075	4,057
1885	20,586	5,258	16,706	2,091	46,723	72,520	9,095	6,302	27,197	3,795
1886	26,699	6,814	17,318	1,924	42,673	80,774	11,888	7,830	29,700	3,077
1887	24,219	7,286	20,608	1,685	56,348	78,411	13,757	8,705	28,040	3,827
1888	23,939	6,735	20,502	1,914	60,508	74,245	16,067	10,871	28,918	4,040
1889	25,128	7,416	18,746	1,805	74,725	88,544	12,387	10,868	26,806	5,384
1890	21,882	7,554	20,746	2,160	78,267	96,095	14,855	17,605	29,918	6,434
1891	27,931	9,829	25,983	2,198	96,124	105,728	17,856	13,284	29,713	5,566
1892	26,850	10,197	20,944	3,118	128,042	104,409	19,718	10,332	28,321	7,064
1893	28,348	10,568	23,687	3,646	80,456	116,256	17,809	14,703	33,638	6,154
1894	16,786	7,620	18,755	2,641	90,315	126,872	15,078	10,985	22,440	4,567
1895	26,123	10,322	17,240	3,522	96,131	76,463	18,353	14,746	33,297	5,789
1896	30,520	9,303	19,032	3,664	84,793	89,220	16,603	16,503	32,643	6,447
1897	27,863	6,015	17,127	3,487	81,544	99,066	17,458	9,584	34,601	9,245
1898	37,069	7,881	14,567	3,358	65,068	60,473	25,386	7,489	27,420	5,671
1899	41,988	10,861	18,314	3,609	55,275	94,464	31,708	9,900	32,265	8,138
1900	57,936	12,060	19,264	4,462	52,468	100,251	31,377	13,297	41,541	10,606
1901	48,220	11,020	19,587	4,688	62,861	90,488	28,455	16,290	40,436	12,606
1902	58,007	15,624	21,481	6,626	70,982	55,061	24,899	15,212	44,956	15,532
1903	68,032	15,302	23,727	9,487	59,201	72,089	30,437	17,235	53,269	14,378
1904	52,006	14,763	24,436	7,829	69,552	71,916	40,444	16,939	60,370	14,631
1905	64,764	18,306	25,937	8,119	84,654	97,645	49,878	18,039	50,162	14,693
1906	83,882	21,856	28,916	9,688	73,256	85,460	45,114	22,448	64,399	20,084
1907	83,207	21,884	35,565	11,690	78,232	92,806	58,920	26,055	74,747	29,114
1908	54,770	15,918	36,874	12,369	67,688	80,258	36,613	22,870	68,255	23,225
1909	78,487	21,087	30,444	14,622	79,112	96,555	61,710	25,401	63,232	19,780
1910	112,248	26,598	36,661	21,639	69,194	106,349	101,079	27,751	68,053	21,448
1911	70,505	23,619	39,978	28,071	90,568	96,691	76,245	27,856	67,004	21,104
1912	102,476	24,986	42,567	25,157	117,827	115,515	93,013	31,919	65,175	24,359
1913	117,386	24,102	41,091	25,191	118,963	103,640	90,170	35,919	66,087	37,774
1914	120,290	13,836	51,026	30,650	110,725	101,436	71,220	35,029	70,723	42,421
1915	104,177	10,162	40,504	23,699	106,766	173,867	84,030	27,157	46,258	28,089
1915 (6 mos) <sup>4</sup>	67,579	8,940	20,895	10,984	54,394	67,425	58,858	9,384	20,767	15,800
1916	172,603	21,060	44,749	40,081	118,813	227,319	159,745	26,856	54,609	39,089
1917	209,730	29,038	44,744	66,307	122,607	221,990	233,221	33,472	55,675	53,704
1918	108,044	34,194	48,722	111,312	99,423	241,390	146,378	54,080	40,701	80,279
1919	306,510	76,278	78,991	127,833	261,270	393,171	215,820	75,146	62,562	65,768
1920	243,878	92,399	101,551	108,026	252,451	1,015,188	242,796	61,630	137,583	89,359
1921	67,561	40,058	73,532	39,880	142,809	235,287	73,773	54,172	75,430	41,377
1922	107,039	68,110	72,499	59,042	160,854	251,905	101,843	66,000	87,070	49,256
1923	118,917	87,975	70,463	64,686	190,232	380,090	185,060	57,158	100,153	66,972
1924	75,052	87,706	72,335	59,667	248,828	363,656	174,231	75,362	90,914	59,396
1925	96,764	115,349	88,664	74,985	286,235	246,008	429,705	71,464	79,271	85,028
1926	96,811	117,418	87,560	79,060	322,746	232,534	505,818	60,570	67,159	82,238
1927	112,846	135,574	84,721	78,659	264,275	258,163	339,859	74,617	67,197	67,249
1928	150,810	118,357	89,667	77,918	309,644	207,048	244,855	55,160	69,297	80,087

<sup>1</sup> Includes sirups and maple sugar prior to Oct. 4, 1913

<sup>2</sup> Includes semimanufactures.

## IMPORTED INTO THE UNITED STATES

through 1840, and June 30, 1850 through 1915; calendar years thereafter. In some cases blanks represent cases the item was not segregated

sands of dollars]

Wool and mohair	Wool manufactures (including rags, noils, waste)	Silk, raw	Saw-mill products	Wood pulp	Paper and manufactures	Petroleum and products	Copper, including ore and manufactures	Tin, including ore	Fertilizers and materials	Year or yearly average
97	7, 239	119			58		233	149		1821
846	5, 901	234			170		807	108		1830.
1, 890	10, 808	386			70		1, 653	229		1840
4, 843	19, 621	1, 286			432		2, 418	674		1850.
7, 734	43, 142	1, 286			497		1, 630	1, 153	526	1860.
6, 743	21, 929	1, 194			372		1, 144	691	590	1870.
	34, 491	3, 018			1, 100		656	2, 043	2, 192	1870
15, 150	47, 763	5, 237	7, 542		1, 822		1, 495	3, 136	2, 383	1871-1875.
10, 506	28, 482	7, 543	4, 017		1, 359		672	2, 927	2, 251	1876-1880.
10, 003	37, 946	12, 545	8, 076		1, 838		525	4, 962	4, 677	1881-1885
16, 459	48, 638	19, 380	8, 603		2, 325		470	7, 035	4, 723	1886-1890
18, 129	34, 531	21, 806	9, 194	1, 851	3, 149		596	7, 687	6, 240	1891-1895
20, 212	29, 496	30, 514	7, 707	1, 107	2, 882		5, 866	10, 604	7, 043	1896-1900
24, 687	17, 429	44, 815	12, 147	3, 027	3, 539		22, 611	21, 550	14, 892	1901-1905.
40, 132	21, 285	66, 202	21, 112	7, 729	6, 708		38, 026	30, 244	27, 046	1906-1910.
42, 664	22, 777	80, 079	21, 884	16, 254	12, 952	8, 077	46, 129	41, 493	39, 631	1911-1915
170, 173	26, 852	213, 960	45, 592	42, 814	47, 214	30, 363	103, 805	73, 739	67, 142	1915-1920 *
102, 369	64, 592	348, 123	68, 410	67, 002	105, 239	90, 793	77, 811	59, 225	56, 865	1921-1925.
12, 385	41, 158	12, 481	8, 780		1, 714		527	5, 430	4, 480	1884.
8, 880	35, 777	12, 422	7, 677		1, 593		499	4, 283	3, 802	1885.
16, 746	41, 421	17, 233	7, 332		1, 839		598	5, 874	4, 511	1886.
16, 424	44, 903	18, 687	7, 858		2, 028		338	6, 928	4, 959	1887.
15, 887	47, 719	19, 151	8, 918		2, 401		408	8, 750	4, 340	1888.
17, 975	52, 565	18, 544	9, 610		2, 542		483	7, 014	4, 950	1889
15, 264	56, 582	23, 285	9, 295	1, 814	2, 817		521	6, 899	4, 847	1890.
18, 231	41, 060	17, 995	10, 077	1, 903	3, 031		730	7, 978	5, 950	1891.
19, 688	35, 536	24, 321	9, 606	1, 820	3, 342		1, 146	8, 668	6, 007	1892
21, 064	38, 049	22, 056	10, 739	2, 909	3, 881		944	12, 359	6, 157	1893.
6, 107	19, 439	15, 628	8, 289	1, 665	2, 628		861	2, 641	5, 749	1894.
25, 556	38, 540	22, 029	7, 259	958	2, 864		801	6, 787	7, 336	1895.
32, 451	53, 494	26, 247	8, 527	1, 053	3, 169		1, 530	6, 762	7, 161	1896.
53, 243	49, 163	18, 497	9, 095	801	3, 122		1, 626	6, 536	5, 785	1897.
16, 784	14, 824	31, 447	5, 068	602	2, 839		3, 869	8, 776	6, 811	1898.
8, 523	13, 833	31, 827	6, 015	672	2, 392		6, 817	11, 843	5, 949	1899.
20, 261	16, 164	44, 650	9, 829	2, 406	2, 890		15, 490	19, 104	19, 104	1900.
12, 530	14, 585	29, 354	8, 636	1, 586	3, 055		20, 582	19, 806	11, 525	1901.
17, 712	17, 384	41, 714	12, 015	2, 059	3, 170		25, 063	19, 462	11, 741	1902.
22, 153	19, 540	49, 003	13, 922	3, 388	3, 483		20, 891	23, 619	15, 087	1903.
24, 814	17, 734	44, 462	12, 027	3, 003	3, 868		21, 682	21, 486	16, 812	1904.
46, 226	17, 894	59, 543	14, 137	4, 501	4, 117		24, 835	23, 378	19, 294	1905.
39, 068	23, 081	52, 856	19, 367	4, 585	4, 793		32, 563	30, 933	22, 761	1906.
41, 534	22, 321	70, 230	20, 959	6, 349	6, 759		47, 725	38, 117	25, 998	1907.
23, 665	19, 388	63, 666	20, 257	7, 313	7, 312	584	31, 520	25, 295	24, 237	1908.
45, 172	18, 102	78, 831	20, 900	8, 629	7, 183	556	38, 076	26, 007	26, 616	1909.
51, 221	23, 632	65, 425	24, 079	11, 768	7, 491	962	40, 245	30, 870	35, 620	1910.
23, 228	18, 970	72, 714	20, 761	13, 980	8, 224	2, 578	39, 682	37, 936	41, 353	1911.
33, 078	14, 813	67, 173	19, 794	14, 219	7, 273	4, 006	45, 217	46, 214	38, 900	1912.
35, 580	16, 318	82, 148	23, 098	16, 165	12, 169	9, 721	59, 580	53, 113	41, 383	1913.
53, 191	34, 294	97, 828	22, 312	17, 023	18, 244	13, 993	54, 506	39, 422	46, 381	1914.
68, 243	29, 791	80, 532	23, 453	19, 881	18, 849	10, 087	31, 661	30, 778	30, 139	1915.
43, 363	7, 461	53, 302	16, 231	8, 567	9, 858	27, 992	21, 422	15, 950	1915 (6 mos.) <sup>4</sup>	
125, 524	16, 471	144, 757	30, 497	26, 986	24, 611	14, 398	95, 335	45, 836	43, 859	1916.
171, 557	23, 343	184, 283	35, 694	41, 979	42, 031	137, 787	68, 377	66, 731	66, 731	1917.
251, 773	22, 809	180, 210	41, 960	31, 477	48, 214	26, 232	133, 525	104, 589	95, 995	1918.
216, 765	19, 486	329, 339	50, 314	37, 048	54, 452	32, 414	86, 271	62, 762	31, 894	1919.
126, 972	58, 116	284, 891	76, 057	89, 418	80, 510	66, 724	90, 019	92, 582	114, 850	1920.
60, 482	51, 218	259, 054	44, 092	39, 396	88, 330	77, 715	45, 785	22, 319	30, 688	1921.
86, 546	59, 414	365, 787	63, 844	63, 292	85, 334	88, 455	66, 829	46, 302	45, 123	1922.
129, 711	69, 118	391, 908	82, 622	74, 744	115, 659	78, 713	95, 988	63, 261	63, 913	1923.
93, 151	69, 310	327, 582	72, 942	75, 743	117, 673	101, 357	96, 184	69, 024	66, 531	1924.
141, 957	73, 900	396, 286	78, 150	81, 834	119, 201	107, 694	84, 270	95, 219	78, 072	1925.
106, 721	70, 667	392, 760	74, 579	91, 231	139, 499	124, 556	99, 742	104, 980	69, 239	1926.
82, 933	78, 775	390, 365	64, 004	85, 842	149, 365	113, 434	84, 963	100, 944	58, 842	1927.
79, 861	78, 391	367, 997	64, 886	83, 464	156, 407	132, 842	98, 187	87, 032	78, 118	1928.

\* Average for period July 1, 1915, to Dec 31, 1920.

<sup>4</sup> July to December.

# No. 536.—EXPORTS OF UNITED STATES MERCHANDISE AND GENERAL IMPORTS BY GROUPS AND SUBGROUPS

[Values in millions and tenths of millions of dollars]

Group and subgroup	Exports of U. S. merchandise					General imports				
	1910-1914 <sup>1</sup>	1921-1925 <sup>1</sup>	1926	1927	1928	1910-1914	1921-1925	1926	1927	1928
<b>Grand total</b> .....	2,130.4	4,310.2	4,711.7	4,758.9	5,030.1	1,688.9	3,450.1	4,430.9	4,184.7	4,091.4
<b>Group 00.—Animals and animal products, edible</b> .....	167.8	342.3	284.9	226.2	228.4	42.9	90.0	116.3	136.1	140.2
A. Animals, edible.....	7.8	6.7	2.4	2.6	2.2	7.6	5.9	9.2	21.1	22.5
B. Meat products.....	67.3	139.8	106.8	71.0	67.7	7.7	19.3	28.7	34.9	35.6
C. Animal oils and fats, edible.....	76.7	138.5	128.4	108.4	112.5	8.4	1.5	1.5	1.2	1.3
D. Dairy products.....	3.3	30.1	19.0	17.4	18.5	10.8	28.1	34.2	37.0	34.2
E. Fish.....	9.7	18.0	19.9	18.3	20.8	15.5	29.3	34.3	35.4	38.5
F. Other edible animal products.....	2.9	9.3	8.3	8.4	6.7	.5	7.9	8.3	6.5	8.0
<b>Group 0.—Animals and animal products, inedible</b> .....	90.0	109.6	117.0	131.1	138.8	174.1	233.2	300.2	345.3	376.8
A. Hides and skins, raw, except furs.....	3.2	7.6	10.8	11.5	11.1	04.6	93.1	96.8	112.8	150.8
B. Leather.....	39.1	44.3	49.8	54.0	55.2	8.5	15.3	28.6	37.4	43.2
C. Leather manufactures.....	19.0	21.8	18.5	18.4	17.5	9.6	12.8	17.2	21.7	25.7
D. Furs and manufactures.....	14.7	22.5	23.2	30.9	39.5	22.6	79.8	117.4	135.6	118.4
E. Animal oils and greases, inedible.....	7.4	8.1	7.8	8.5	7.0	1.1	4.7	9.0	8.8	9.8
F. Other inedible animals and animal products.....	6.6	5.4	6.7	7.9	8.5	27.0	27.6	31.2	29.0	29.0
<b>Group 1.—Vegetable food products and beverages</b> .....	253.6	675.9	553.2	658.2	532.1	355.3	738.2	841.4	819.4	815.5
A. Grains and preparations.....	147.3	474.3	355.7	443.8	315.7	18.0	32.6	28.0	23.9	26.5
B. Fodders and feeds.....	29.4	26.7	28.2	32.9	30.9	2.7	8.0	12.6	11.2	15.7
C. Vegetables and preparations.....	6.3	19.1	20.9	21.9	22.7	14.4	26.2	38.4	38.4	39.9
D. Fruits and nuts.....	28.7	82.9	111.8	121.7	129.3	42.3	75.5	87.6	84.7	89.7
E. Vegetable oils and fats, edible.....	19.4	11.9	5.6	7.3	6.8	7.4	13.3	13.9	17.6	15.0
F. Cocoa, coffee, and tea.....	7.7	7.3	9.8	6.9	4.1	135.0	263.1	398.3	350.8	386.1
G. Spices.....	.1	.2	.2	.2	.3	7.3	13.9	16.4	20.1	20.6
H. Sugar and related products.....	10.7	51.5	19.3	21.6	20.1	106.4	303.5	244.5	270.9	220.3
I. Beverages.....	4.0	2.0	1.8	1.9	2.2	21.9	2.2	1.6	1.8	1.8
<b>Group 2.—Vegetable products, inedible, except fibers and wood</b> .....	100.6	276.3	282.5	290.9	302.7	210.7	442.0	802.7	636.9	519.0
A. Rubber and manufactures.....	12.4	39.0	60.7	70.7	69.5	97.7	197.8	516.0	349.0	263.0
B. Naval stores, gums, resins, and balsams.....	23.4	22.4	36.9	34.3	26.4	11.9	30.9	34.0	32.5	32.2
C. Drugs, herbs, leaves and roots, crude.....	1.9	3.2	3.6	3.6	3.3	4.2	6.5	9.2	9.0	10.9
D. Oilseeds.....	.5	.2	.2	.1	.1	15.1	51.2	70.5	64.6	60.7
E. Vegetable oils, inedible.....	1.3	4.2	5.4	6.6	6.2	22.5	51.6	71.7	67.5	69.7
F. Dyeing and tanning materials.....	.8	2.3	1.8	2.2	2.7	6.2	8.1	7.9	10.1	9.2
G. Seeds, except oilseeds.....	2.6	3.8	4.0	3.6	2.7	8.2	11.5	11.6	9.5	9.1
H. Nursery and greenhouse stock.....	.4	.4	.5	.4	.8	3.0	7.2	7.5	7.4	7.8
I. Tobacco and manufactures.....	50.3	187.2	157.4	156.2	179.2	37.4	73.2	69.5	83.0	63.1
J. Miscellaneous vegetable products.....	6.8	13.6	12.0	13.1	11.8	4.5	3.8	4.8	4.3	3.4
<b>Group 3.—Textiles</b> .....	616.1	997.2	1,009.6	1,021.4	1,124.5	387.8	893.6	999.7	954.5	990.1
A. Cotton, unmanufactured.....	551.9	805.0	814.4	826.3	920.0	20.7	46.3	46.2	45.7	42.8
B. Cotton semimanufactures.....	4.7	15.4	19.1	24.0	24.2	6.1	8.4	6.5	5.4	6.3
C. Cotton manufactures.....	40.5	117.7	109.7	109.2	110.4	61.3	78.2	60.7	60.8	63.0
D. Jute and manufactures.....	1.0	2.8	3.6	3.4	3.7	40.6	76.6	113.3	90.1	101.3
E. Flax, hemp, and ramie manufactures.....	.....	.3	.5	.4	.5	36.4	48.9	52.7	55.3	50.9
F. Other vegetable fibers and manufactures.....	9.6	9.5	7.0	4.9	6.3	29.5	34.7	50.1	41.2	37.0
G. Hats of straw or fiber and materials for.....	.....	1.0	.4	.4	.5	9.7	10.2	15.2	14.3	10.8
H. Miscellaneous fiber manufactures.....	.....	.....	.....	.....	.....	2.9	3.3	4.5	4.9	4.9
I. Wool, unmanufactured.....	(?)	.2	.1	.1	.2	39.3	102.4	106.7	82.9	79.9
J. Wool semimanufactures.....	.5	.9	1.0	1.2	1.6	.....	20.5	11.5	14.6	16.1
K. Wool manufactures.....	2.9	6.7	4.0	4.0	4.9	21.5	44.0	59.2	64.2	62.3
L. Hair and manufactures.....	1.4	1.7	2.2	2.8	2.7	5.4	8.9	7.3	6.1	4.8
M. Silk, unmanufactured.....	.....	.....	.....	.....	.....	79.5	356.3	402.7	399.1	373.3
N. Silk manufactures.....	1.9	13.0	17.8	15.3	18.6	29.9	40.9	40.6	42.2	41.4
O. Rayon manufactures.....	.....	7.0	7.7	7.4	6.4	2.7	8.8	13.9	18.7	15.5
P. Miscellaneous textile products.....	1.7	10.1	22.2	21.9	24.3	2.4	5.1	8.7	8.9	9.8

<sup>1</sup> Yearly average.<sup>2</sup> Less than \$50,000.

**No. 536.—EXPORTS OF UNITED STATES MERCHANDISE AND GENERAL IMPORTS  
BY GROUPS AND SUBGROUPS—Continued**

Group and subgroup	Exports of U. S. merchandise					General imports				
	1910- 1914 <sup>1</sup>	1921- 1925 <sup>1</sup>	1926	1927	1928	1910- 1914	1921- 1925	1926	1927	1928
<b>Group 4.—Wood and paper.</b>	109 7	153 3	179 7	192 2	200.9	79.9	298 6	372.8	365.6	358.8
A. Wood, unmanufactured.....	5 1	8 1	11 1	12.5	15 8	9.6	15.0	17 0	18.0	14.6
B. Wood manufactures— sawmill products.....	66 0	85 1	97 4	107 6	103 8	22 1	68.4	74.6	64.0	54.9
C. Wood manufactures.....	25 7	30.8	37 9	38 1	37 5	4 2	9.1	10 5	10 6	10 6
D. Cork and manufactures.....	.3	.9	1 5	1 6	1 7	5 8	4.7	9 7	9 9	9 9
E. Paper base stocks.....	1 9	3 7	5 0	5 4	6 1	27 5	94.2	121 5	113.6	112.3
F. Paper and manufactures.....	10 7	24.6	26 8	26.9	30 9	10 7	105.2	139 5	149 4	156.4
<b>Group 5.—Nonmetallic mineral products.</b>	203 3	582 4	811 6	654.5	687.3	89.3	230.1	301.4	262.8	285.2
A. Coal and related products.....	55 7	131.1	203 9	109 7	99 5	4 7	12.3	12.3	5 0	6 5
B. Petroleum and products.....	127 7	405.1	554.5	485 9	525.9	6 3	90 8	124.6	113.4	132.8
C. Stone, sand, cement, lime, and plaster.....	6 4	5 5	5 6	5 7	5 9	2 5	5 3	9 6	8 2	7 3
D. Glass and glass products.....	3 5	10.1	9 2	8 9	10 1	6 5	17 0	20 9	17.0	15.2
E. Clay and clay products.....	4.1	7.2	8 0	8 4	9 6	12 6	19 0	25 9	25.7	23.6
F. Precious stones and pearls, and imitations.....	-----	.1	.1	.1	1	42 6	66.5	80 7	63 7	74.6
G. All other.....	5 9	23.3	30 3	35 8	36 2	14.1	19 2	27 6	24.8	25.1
<b>Group 6.—Metals and manufactures, except machinery and vehicles.</b>	283 3	415.5	459 2	480 2	500 2	163.3	243.3	364.0	328.4	315.7
A. Iron ore.....	2 8	3.0	3.4	3 4	4 8	6 7	7 0	5 9	6.1	5.4
B. Iron and steel semimanu- factures.....	37 0	73.2	92 7	86 7	96 0	13 7	11.7	16 4	10.0	10.7
C. Steel mill products— manufactures.....	54 3	93.6	81 4	73 8	83 6	1 6	7.7	17.7	18.8	17.5
D. Iron and steel, advanced manufactures.....	45 0	68.6	75.9	73.3	82.6	8 6	8.3	6 9	7.2	8.8
E. Ferro-alloys.....	3	.5	.8	1.1	9	3.1	13.3	20 8	16.4	13.9
F. Nonferrous metals, except precious.....	141 1	173.5	200.6	216.1	227.4	111.9	178.1	272.2	247.4	240.1
G. Precious metals, jewelry, and plated ware.....	2 8	3.1	4.5	5 7	4 9	7 6	17 2	24.1	22 5	19.2
<b>Group 7.—Machinery and vehicles.</b>	200 5	531.4	755.9	857.0	1,035.5	12.5	17.8	26.2	27 5	29 8
A. Electrical machinery and apparatus.....	20.9	69.3	84.4	84 8	89 0	-----	1.8	2.5	3.0	2.8
B. Industrial machinery.....	78 6	166.7	179 6	201 5	226 6	-----	-----	-----	-----	-----
C. Office appliances.....	15.0	23.5	36 3	44 1	48 5	-----	11.4	16 5	16.5	13.7
D. Printing machinery.....	3 3	9 6	14.3	15 2	16 6	-----	-----	-----	-----	-----
E. Agricultural machinery and implements.....	40 5	51.9	85.5	90 7	116 7	-----	2.6	5 0	5.4	4.8
F. Automobiles and other ve- hicles.....	42 2	210.4	355 9	420.7	538 3	2.6	2.0	2 2	2.6	3.4
<b>Group 8.—Chemicals and related products.</b>	46 6	107.6	125.2	132.3	137 3	87.7	112.1	134 8	129.9	143.2
A. Coal-tar products.....	.1	9.9	14 1	17 1	14 1	14 3	16.1	19 8	24.0	23.9
B. Medicinal and pharmaceu- tical preparations.....	6 8	16.1	19 7	20 1	20 4	1.8	4.9	5.9	5.4	5.2
C. Industrial chemical speci- alities.....	2 1	5.1	7 5	9 7	15 1	-----	-----	-----	-----	-----
D. Industrial chemicals.....	12 7	25.2	23 6	26 0	25 5	25.5	23 2	28.3	28.5	24.2
E. Pigments, paints and var- nishes.....	6 8	14.6	19 3	21 3	25 6	2.1	3.1	3 8	3.8	3.8
F. Fertilizers and fertilizer materials.....	10.7	17.5	20 0	17 7	16 1	40.7	56.9	69 2	58 8	78.1
G. Explosives, etc.....	1 7	3.9	4 2	3 5	5 2	.7	.9	1.2	1.1	1.0
H. Soap and toilet prepara- tions.....	5 6	15.3	16 8	16 9	15 4	2.5	7.1	6 6	8.2	7.1
<b>Group 9.—Miscellaneous.</b>	59.0	118 8	132 9	134.9	142 4	95 4	153.1	171.3	178.4	187.3
A. Photographic goods.....	8.0	17.4	18.6	18 7	20 2	2.7	6.4	5 7	5 8	6.0
B. Scientific and professional instruments, apparatus and supplies.....	4 6	10.0	12 1	12 2	12 4	1.0	2.1	2 9	3.2	3.4
C. Musical instruments.....	6 1	10.9	16.0	17.7	18.1	1.7	3.8	5 2	4.8	4.3
D. Miscellaneous office sup- plies.....	2 0	7.1	8 8	8 6	10 0	-----	-----	-----	-----	-----
E. Toys, athletic and sport- ing goods.....	1.4	3.6	3 9	4 4	4 9	8.1	8.1	6 8	6 9	6.4
F. Firearms and ammuni- tion.....	6 8	5.1	6 3	6 0	5 5	-----	.3	.5	.5	.6
G. Books, maps, pictures and other printed matter.....	9 2	19.9	21 9	24.2	24.3	9 2	9.4	14.4	13.2	14.4
H. Clocks and watches.....	3 2	3 2	3 2	3 6	3 6	3 3	11.8	15 0	15.6	13.2
I. Art works.....	1 0	.9	1 4	1 4	1 5	35.0	31.2	53.5	60.4	65.8
J. Misc. articles, n e s.....	16 7	40.9	40.6	38 1	41.9	34.2	80.0	67 4	68.0	73.1

<sup>1</sup> Yearly average.<sup>2</sup> Except gold and silver in ore, bullion, and coin.

## No. 537.—EXPORTS OF UNITED STATES MERCHANDISE BY COMMODITY GROUPS AND ARTICLES

NOTE.—Data are for calendar years except for 1910-1914 which are for years ended June 30. Figures for 1910-1914 and 1921-1925 are annual averages. A greater number of items are shown separately beginning about 1912 and 1922 and for this reason many averages for two, three, and four years are shown in the table. However, averages shown for group totals always cover five years. In some cases the detail does not add to the total because of the different periods covered by the averages.

Group and article	Quantity					Value in thousands of dollars							
	1910-1914	1921-1925	1925	1926	1927	1928	1929	1910-1914	1921-1925	1925	1926	1927	1928
<b>Total exports of domestic merchandise</b> .....								3,130,499	4,310,281	4,818,792	4,711,721	4,753,864	5,030,089
<b>GROUP 00—ANIMALS AND ANIMAL PRODUCTS, EDIBLE</b> .....													
<b>Total</b> .....								187,813	342,348	323,181	284,864	298,248	298,425
<b>A. Animals, edible</b> .....								7,948	6,698	3,870	2,369	2,648	2,163
Cattle—													
Bulls for breeding.....	87,625	97,292	3,381	1,469	987	1,663	987	1,663	4,985	274	181	174	242
Cows for breeding.....			17,303	6,874	6,322	4,504	6,322	4,504			385	615	418
Other cattle.....			59,881	14,259	11,360	5,130	11,360	5,130		1,369	945	415	286
Hogs (swine).....	11,491	83,472	46,040	28,566	42,270	54,174	42,270	54,174	1,188	869	603	693	822
Sheep.....	132,601	36,407	12,041	12,311	22,926	4,164	22,926	4,164	275	270	176	381	65
Poultry, live.....		1,629	712	565	647	566	647	566	1,312	343	269	370	325
<b>B. Meat products</b> .....	519,083	838,927	648,025	518,501	388,771	398,398	388,771	398,398	139,838	127,033	106,837	71,011	67,722
Beef and veal—													
Fresh.....	29,452	4,725	3,859	2,479	1,738	2,052	1,738	2,052	779	541	432	344	442
Pickled or cured.....	32,873	23,339	20,930	19,653	14,868	9,364	14,868	9,364	2,342	2,224	2,298	1,626	1,174
Pork—													
Carcasses, fresh or frozen.....	2,024	38,075	3,294	2,705	1,576	1,936	1,576	1,936	5,959	495	495	231	251
Lumps and other fresh pork.....			16,527	12,860	6,630	9,476	6,630	9,476		3,002	2,701	1,274	1,523
Wilshire sides.....			14,031	6,188	663	931	663	931		2,819	1,316	134	140
Hams and shoulders, cured.....	166,813	296,758	251,833	183,718	122,613	124,149	122,613	124,149	53,709	52,121	43,601	25,320	23,305
Bacon.....			176,829	147,505	105,640	117,687	105,640	117,687	33,988	28,050	16,684	16,684	16,684
Cumberland sides.....	182,474	345,934	29,746	14,180	8,865	5,512	8,865	5,512	52,083	5,131	3,119	1,633	896
Pickled pork.....	48,275	33,785	27,453	29,047	29,271	33,402	29,271	33,402	4,301	4,398	4,785	4,175	4,733
Mutton and lamb.....			3,539	1,464	1,464	1,024	937	1,024	380	512	267	218	233
Sausage, not canned.....			5,856	7,963	4,351	3,388	4,351	3,388	704	2,105	1,217	1,272	998
Canned meats.....			15,911	16,880	16,601	14,694	16,601	14,694	5,551	5,295	5,257	5,913	5,325
Beef.....	9,392	2,807	2,174	2,645	2,752	1,900	2,752	1,900	710	682	986	912	677
Pork.....	4,227	2,868	4,702	6,462	7,274	8,153	7,274	8,153	927	1,684	2,330	3,000	3,128
Sausage.....			2,940	3,773	3,844	2,038	3,844	2,038	846	1,050	1,126	1,149	682
Other canned meat.....			1,738	2,737	2,790	2,063	2,790	2,063	3,069	1,879	815	853	838
Poultry and game, fresh.....			5,152	3,406	4,629	3,090	4,629	3,090	1,445	1,548	1,117	1,305	920
Other meats (including edible offal).....			146,820	38,681	37,266	38,562	37,266	38,562	4,435	3,896	4,075	4,005	4,320
Sausage casings—													
Hog casings.....					9,502	12,536						3,838	3,571
Beef casings.....					21,499	17,067						2,794	2,622
Other casings.....	33,645	29,927	36,573	32,120	2,154	2,554	2,154	2,554	6,610	9,635	8,104	3,305	3,587



C. Animal oils and fats, edible.									
Oleo oil.....do.....	795,032	1,053,575	851,616	866,117	814,436	865,463	76,674	136,492	136,740
Oleo stock.....do.....	116,225	105,554	91,972	96,902	78,781	62,779	12,770	11,814	11,785
Tallow.....do.....	23,009	12,970	11,913	12,159	11,913	6,779	1,484	1,528	1,484
Lard and substitutes—			17,514	10,628	6,610	3,211	1,803	1,624	1,624
Lard.....do.....	474,355	860,840	688,829	698,961	681,303	750,722	52,088	115,602	108,000
Neutral lard.....do.....	43,572	22,969	18,864	18,116	20,307	23,750	4,797	3,351	3,548
Lard compounds, containing animal fats									
1,000 lbs.....do.....	67,319	18,663	14,091	10,551	8,988	4,713	2,316	2,041	1,485
Oleo and lard steam.....do.....	(5)	18,353	7,395	7,318	3,648	3,883	(9)	1,926	874
Oleomargarine of animal or vegetable fats									
1,000 lbs.....do.....	3,293	2,144	774	1,452	796	656	341	367	204
D. Dairy products							3,338	30,100	23,566
Milk and cream—									
Fresh.....do.....		1,112	86	59	65	125	351	166	67
Condensed (sweetened).....do.....		62,962	42,707	38,711	34,081	38,763	1,559	6,007	6,020
Evaporated (unsweetened).....do.....		142,143	105,056	75,838	68,947	76,789	1,277	10,615	7,832
Dried.....do.....	15,774	5,450	3,649	2,661	3,326	4,016	862	717	774
Butter.....do.....		7,680	5,343	4,483	4,243	3,898	1,013	3,140	2,529
Cheese.....do.....		7,720	9,190	5,493	3,410	2,600	697	2,420	1,115
Infant's food, malted milk, etc.		1,258	2,819	2,570	2,892	2,185	742	728	698
E. Fish							9,710	17,961	20,733
Fresh—									
Salmon.....do.....		14,319	4,224	3,062	3,079	3,454	1,811	466	502
Other.....do.....		11,987	6,282	3,706	5,000	4,469	7,277	770	682
Shellfish, not canned.....do.....		14,365	6,795	3,636	7,483	8,261	386	844	984
Fish, salted or dry-cured—									
Salmon.....do.....		1,326	1,626	2,122	2,356	4,367	(9)	1,275	333
Cod.....do.....		15,587	4,382	3,954	3,820	3,165	1,613	1,613	338
Herring.....do.....		3,955	3,437	2,351	2,342	1,859	138	235	212
Haddock, hake, and pollock.....do.....		13,769	3,164	2,704	2,189	1,951	1,279	278	197
Other.....do.....		5,631	1,716	1,616	2,204	1,646	370	492	131
Fish, pickled—									
Salmon.....do.....		22,791	23,869	16,781	14,737	9,565	1,124	1,302	803
Other.....do.....		12,442	8,104	8,093	7,612	4,664	147	167	136
Fish, canned—									
Salmon.....do.....		58,815	53,172	53,511	38,248	40,953	5,615	8,671	8,578
Sardines.....do.....		41,924	62,713	71,255	79,440	80,253	13,570	5,302	6,126
Shellfish.....do.....		14,588	4,001	3,443	3,863	4,731	657	938	691
Other canned fish.....do.....			2,201	1,998	2,015	9,362	214	596	304
Other fish products.....do.....			523	1,494	1,918	3,399	149	110	139
F. Other edible animal products									
Eggs, in the shell.....do.....		30,337	24,999	29,634	28,707	20,192	2,945	8,293	8,347
Eggs and yolks, frozen, dried, canned.....do.....		1,400	301	522	661	598	81	7,534	7,738
Meat extracts and bouillon cubes.....do.....		1,298	184	206	188	160	148	362	376
Gelatin.....do.....		1,351	461	282	307	244	1,238	299	214

1 Average for years 1922-1925. 2 Average for years 1911-1914, included with oleo oil in 1910.  
 3 Stearins and fatty acids, inedible, include oleo and lard stearin. 4 Average for years 1911-1914, included with oleo oil in 1910.  
 5 Salmon, fresh, includes all salmon except canned. 6 Average for years 1910 and 1912-1914.





## No. 537.—EXPORTS OF UNITED STATES MERCHANDISE BY COMMODITY GROUPS AND ARTICLES—Continued

Group and article	Quantity						Value in thousands of dollars					
	1910-1914	1921-1925	1925	1926	1927	1928	1910-1914	1921-1925	1925	1926	1927	1928
<b>GROUP 0.—ANIMALS AND ANIMAL PRODUCTS, IN- EDIBLE—Continued</b>												
<b>E. Animal oils and greases, inedible—Continued</b>												
Fish oils and greases, inedible—1,000 lbs.	7, 681	864	614	809	692	882	275	140	115	119	80	105
Stearins and fatty acids, except oleo and lard												
Grease stearin.....1,000 lbs.			2, 629	2, 429	3, 406	1, 432			296	270	337	114
Oleo acid, or red oil.....do	13, 234	13, 159	491	352	2, 174	6, 254	2, 278	1, 314	51	86	191	547
Stearic acid.....do			1, 931	1, 012	2, 353	2, 261			283	139	240	267
Other animal greases, oils, and fats.....do		1 69, 886	81, 264	72, 765	84, 829	62, 984	6, 219	6, 143	9, 394	6, 954	7, 266	5, 713
<b>F. Other inedible animals and animal products.</b>							6, 685	5, 443	7, 188	6, 748	7, 944	8, 507
Animals.....do							5, 113	3, 327	4, 628	3, 188	4, 027	4, 339
Horses—												
For breeding.....number	28, 073	13, 105	552	570	1, 069	822	4, 008	1, 358	282	190	248	363
Other.....do		15, 043	15, 043	14, 675	8, 947	17, 433			1, 137	925	833	1, 027
Mules, asses, burros.....do	5, 125	15, 215	26, 470	18, 833	19, 722	18, 963	768	1, 559	2, 722	1, 702	2, 352	2, 227
Other live animals.....do							342	410	467	372	594	722
Bones, hoofs, and horns, unmanufactured												
Feathers, crude, not dressed.....1,000 lbs.		15, 131	3, 775	1, 996	1, 806	2, 870	151	210	146	79	72	112
Feathers, dressed, and manufactures of.....do		14, 300	6, 328	5, 000	6, 285	6, 816	453	355	598	422	578	725
Glue of animal origin.....1,000 lbs.		2, 380	2, 546	2, 463	2, 352	2, 547		1, 248	297	162	169	149
Sponges.....do	2, 551	121	98	106	186	115	271	384	385	381	384	426
Wax manufactures.....do	209	11, 562	1, 292	2, 891	1, 783	1, 242	84	308	283	165	188	147
Other animal products, inedible.....do							372	463	754	452	393	260
<b>GROUP 1.—VEGETABLE FOOD PRODUCTS AND BEV- ERAGES</b>												
<b>Total.....</b>							253, 563	675, 899	568, 705	553, 214	658, 159	532, 063
<b>A. Grains and preparations</b>							147, 963	474, 262	351, 791	355, 687	443, 767	315, 694
Barley—												
Gran.....1,000 bus of 48 lbs.	7, 896	21, 274	29, 059	13, 856	37, 973	51, 677	5, 073	18, 598	26, 630	10, 371	35, 432	44, 827
Malt.....1,000 bus of 34 lbs.	211	5, 072	4, 704	3, 316	2, 869	3, 280			5, 657	3, 440	3, 048	3, 068
Buckwheat.....1,000 bus. of 48 lbs.	32	215	110	101	467	161	21	254	127	122	464	169
Corn—												
Gran.....1,000 bus. of 56 lbs.	39, 810	73, 180	12, 762	23, 064	13, 428	25, 799	25, 231	55, 349	14, 253	19, 840	11, 432	26, 367
Meal and flour.....1,000 bbls. of 196 lbs.	490	568	348	516	387	273	1, 351	2, 535	2, 010	2, 500	1, 872	1, 348
Hominy and corn grits.....1,000 lbs.	1 87, 440	20, 655	30, 141	23, 143	23, 143	11, 542	1 1, 570	1 1, 570	2 554	1 472	2 554	2 554
Corn breakfast foods ready to eat.....do		1 5, 960	7, 923	10, 367	8, 638	6, 729		1 403	568	739	598	521

Oats—	Grain.....	1,000 bus of 32 lbs.	8,304	13,972	29,443	11,574	10,053	10,421	3,345	7,313	15,812	5,758	5,269	5,217
	Oat meal, flaked and rolled oats.....	1,000 lbs.	24,320	121,738	151,654	140,900	66,562	84,074	805	4,630	6,262	6,006	4,020	4,263
Rice.....	do	do	18,489	316,330	39,907	77,081	239,596	288,702	637	11,876	2,375	3,536	9,742	10,878
Flour, meal, and broken rice.....	do	do	855	34,453	28,675	40,410	70,403	90,257			909	1,348	2,058	2,357
Rye.....	1,000 bus of 56 lbs.	do	5,579	112,447	36,747	11,941	35,941	14,499	598	38,938	37,241	12,282	39,677	17,378
Flour.....	1,000 barrels of 136 lbs.	do				15,667	38,460	31,650	22	536	242	97	236	189
Wheat—	1,000 bus of 60 lbs.	do	56,913	159,222	86,528	138,275	168,307	96,290	55,063	228,312	148,717	201,739	230,504	119,888
Flour.....	1,000 bbls of 196 lbs.	do	10,679	15,049	11,119	11,860	12,823	11,862	51,127	98,522	85,067	83,133	85,332	73,855
Bread, biscuits, cakes and crackers.....	1,000 lbs.	do	13,048	11,327	16,026	13,935	11,489	10,675	7,749	1,658	2,369	2,211	2,061	1,966
Plain, not sweetened or flavored.....	do	do				8,275	6,617	6,754			1,123	987	1,063	1,063
Sweetened or flavored.....	do	do				5,660	4,872	3,921			1,064	1,064		873
Macaroni, spaghetti, and noodles.....	do	do		17,674	8,557	8,273	8,468	9,979		1,022	727	711	714	900
Other wheat products for table use.....	do	do		1,618	9,235	3,612	4,303	3,385		1,478	708	371	339	329
Cereal breakfast foods, n e s.....	do	do		11,89,577	6,365	2,247	2,891	2,835		13 1,530	680	307	347	335
Other grains and preparations of.....	do	do		8,271	9,404		43,542	14,638		950	497	621	1,160	967
Hay.....	tons	do	56,166	36,576	21,280	13,328	13,538	14,471	29,447	26,738	38,777	28,214	32,917	30,894
Oil and oil-cake meal.....	1,000 lbs.	do	1,668,021	1,165,577	1,487,756	1,449,758	1,509,069	1,186,934	23,645	24,695	41,665	26,458	30,186	27,198
Cottonseed cake.....	do	do	14,633,288	403,867	661,446	541,231	623,371	409,621	12,567	8,387	11,571	8,864	11,498	9,107
Unseed cake.....	do	do	14,661,819	553,808	638,532	577,226	646,356	547,475	12,044	12,149	14,238	12,109	13,480	13,086
Other oil cake.....	do	do	11,72,914	22,370	17,898	14,738	23,017	39,229	1,044	3,347	273	218	346	754
Cottonseed meal.....	do	do		156,065	237,623	300,987	257,728	171,307		3,196	4,938	4,951	4,465	3,806
Unseed meal.....	do	do		20,607	12,158	13,400	16,941	14,133	(9)	451	284	285	352	330
Other oil-cake meal.....	do	do		111,075	20,886	2,165	2,555	5,079		1,206	361	39	45	115
Kafir and milo.....	1,000 bus of 56 lbs.	do						1,369						
Prepared and mixed feeds.....	tons of 2,240 lbs	do	99,664	14,644	20,975	25,738	46,318	26,967	2,781	578	990	1,015	1,657	1,104
Other feeds, including screenings.....	do	do		23,416	20,701	12,835	35,055	43,454	2,034	717	646	433	1,789	1,000
Beans, dried.....	1,000 bus of 60 lbs.	do							6,349	19,088	19,065	20,851	21,914	22,688
Peas, dried.....	do	do	342	815	499	586	520	344	951	3,015	2,151	2,089	1,697	1,777
Vegetables, fresh—	do	do		95	69	126	162	223		418	342	536	650	899
Potatoes, white.....	do	do	1,889	3,056	2,228	2,033	2,379	2,698	1,364	3,823	3,226	3,497	3,596	2,254
Onions.....	1,000 lbs. of 57 lbs	do	352	675	516	616	476	561	315	1,082	879	833	716	822
Other fresh vegetables.....	1,000 lbs.	do		190,212	101,001	116,583	141,356	156,109	1,793	3,212	3,093	4,073	4,550	5,087
Vegetables, canned.....	do	do												
Asparagus.....	do	do		149,378	55,361	71,947	80,846	91,143	1,401	4,902	5,918	6,749	7,487	8,691
Baked beans and pork and beans.....	do	do		18,923	10,776	12,290	15,364	17,718		1,952	1,769	1,870	2,260	2,705
Corn.....	do	do		17,172	9,317	16,377	14,017	14,017		1,616	818	1,256	1,197	1,197
Peas.....	do	do		14,598	6,126	4,813	5,017	8,050		336	502	354	362	583
Tomatoes.....	do	do		14,120	5,450	4,340	6,109	6,484		1,886	464	389	524	574
Other canned vegetables.....	do	do		13,878	15,669	22,942	26,331	28,279		1,460	1,750	2,075	2,164	2,603
Other canned vegetables.....	do	do		17,083	5,233	7,206	6,351	5,627		477	346	473	382	359
Other canned vegetables.....	do	do		13,005	2,790	4,411	9,905	10,965		563	259	331	572	670

\* Stearins and fatty acids, inedible, includes oleo lard and stearin.  
 † "Other animal greases" include lubricating greases for 1910-1914.  
 ‡ Oil cake and oil-cake meal are shown under oilcaks, not reported separately.

\* Average for years 1913-14  
 † Average for years 1922-1925  
 ‡ Average for years 1923-1925.  
 ‡ "Cereal preparations other than oat meal and rolled oats" prior to 1922.

## No. 537.—EXPORTS OF UNITED STATES MERCHANDISE BY COMMODITY GROUPS AND ARTICLES—Continued

Group and article	Quantity					Value in thousands of dollars						
	1910-1914	1921-1925	1925	1926	1927	1928	1910-1914	1921-1925	1925	1926	1927	1928
GROUP 1.—VEGETABLE FOOD PRODUCTS AND BEVERAGES—Continued												
C. Vegetables and preparations—Continued.												
Pickles.....1,000 lbs.		2, 129	1, 838	3, 453	4, 487	12, 761	3 883	1, 691	253	208	264	393
Ketchup and other tomato sauces.....do.		5, 320	5, 522	7, 795	8, 149	12, 761			871	942	1, 583	1, 639
Other sauces and relishes.....do.		2, 670	2, 586	2, 969	3, 060	3, 060			559	695	1, 608	1, 684
Vinegar.....1,000 gals.	154	199	239	318	226	32		85	120	133	137	140
Yeast.....do.		12, 846	3, 468	3, 478	3, 516	3, 516	200	728	983	980	767	694
Other vegetable preparations.....do.		11, 795	1, 660	2, 533	2, 409	2, 409		1 175	170	216	263	245
D. Fruits and nuts.												
Fruits and preparations							28, 665	82, 868	102, 015	111, 797	121, 665	129, 394
Subtropical fruits—							28, 028	81, 466	100, 741	110, 311	120, 143	127, 797
Grapefruit.....1,000 boxes		447	411	765	679			1 998	1, 506	1 773	3, 315	2, 904
Lemons.....do.	1 316	162	296	308	251		3 354	997	880	1 286	1, 484	1, 430
Oranges.....do.	7 76	2, 692	3, 562	2, 678	44, 063		3, 004	8, 465	9, 853	11, 416	15, 132	13, 912
Pineapples.....boxes	1 186	36, 781	59, 256	70, 478				1 145	137	197	221	146
Other fresh fruits—												
Apples in boxes.....1,000 boxes		4, 909	6, 924	6, 407	8, 149			11, 400	12, 787	15, 043	15, 015	17, 431
Apples in barrels.....1,000 bbls.		1 493	1, 707	3, 062	3, 042		5, 670	7, 968	8, 276	15, 043	15, 173	9, 232
Berries.....do.	1, 551	8, 142	8, 789	11, 106	14, 240		2 646	962	960	1, 007	1, 142	1, 494
Grapes.....do.		19, 640	24, 265	30, 650	38, 715	53, 610		11, 242	1, 429	1, 536	1, 979	2, 505
Pears.....do.		14, 927	68, 741	54, 695	72, 635	773		2, 421	4, 125	3, 003	3, 828	4, 143
Peaches.....do.		115, 062	16, 225	14, 454	17, 729	22, 181		1 639	734	523	777	730
Other fresh fruits.....do.		1 35, 253	37, 447	39, 402	47, 297	59, 415	(1)	1, 913	1, 525	1, 400	1, 883	2, 265
Dried and evaporated fruits												
Raisins.....do.		1 937, 970	331, 709	393, 557	481, 690	565, 134	14, 030	25, 571	28, 938	30, 676	33, 797	39, 607
Apples.....do.	18, 004	84, 548	125, 924	141, 038	177, 435	226, 490	1, 070	3, 188	9, 291	11, 178	12, 302	12, 670
Apricots.....do.	35, 137	21, 304	22, 721	28, 327	27, 664	35, 066	2, 815	2, 478	2, 738	2, 974	2, 908	4, 145
Peaches.....do.	19, 438	20, 444	20, 161	15, 955	20, 913	23, 843	2, 128	3, 245	3, 512	3, 334	3, 510	3, 547
Prunes.....do.	6, 482	6, 865	4, 412	6, 335	6, 517	9, 810	394	693	608	775	671	993
Other.....do.	80, 428	127, 730	146, 485	133, 076	229, 590	267, 707	4, 715	9, 637	11, 266	10, 635	12, 614	16, 221
Canned fruits							18 2, 908	1, 330	1, 563	1, 790	1, 701	2, 061
Berries.....do.		1 210, 101	265, 361	223, 749	247, 879	305, 762	3, 964	20, 253	26, 630	22, 684	22, 632	28, 760
Apples and apple sauce.....do.		19 13, 470	12, 338	13, 878	13, 878	13, 878		10 754	754	968	767	1, 334
Apricots.....do.		32 126	33, 403	32, 360	25, 917	28, 765		3, 041	3, 263	2 476	2 476	2 644
Cherries.....do.		1 1, 720	1, 665	1, 917	1, 802	2, 202		1 277	273	3, 303	2, 292	3, 346

Prunes.....do.....	19 2,684	2,882	3,461	3,072	2,231	18 306	312	381	324	218
Peaches.....do.....	1 62,198	84,749	66,699	78,177	96,237	6,525	7,910	6,955	6,519	7,067
Pears.....do.....	1 53,906	69,458	51,227	61,880	78,266	5,918	8,304	5,529	5,205	7,507
Pineapples.....do.....	1 26,321	36,268	31,121	45,968	54,394	2,767	3,547	2,981	4,208	4,886
Other canned fruits.....do.....	1 33,784	22,547	22,746	10,248	9,131	3,712	2,688	2,061	1,085	971
Preserved fruits, jellies, and jams.....do.....	12 011	1,556	1,884	2,471	2,062	449	333	306	423	383
Other fruit preparations.....do.....	3,258	17,434	27,000	24,851	34,455	917	2,430	3,439	3,341	4,885
<b>Nuts</b> .....do.....										
Peanuts.....do.....	1 11,153	8,120	9,660	11,022	11,015	1,408	1,274	1,486	1,491	1,592
Other nuts.....do.....	6,242	7,707	4,232	4,827	5,419	319	319	347	363	523
Other edible vegetable oils and fats.....do.....	1 5,142	4,631	5,428	6,195	5,596	826	955	1,139	1,128	1,066
<b>E. Vegetable oils and fats, edible</b> .....do.....	112,728	76,918	50,473	77,141	63,846	19,388	8,952	5,585	7,292	6,835
Cottonseed oil.....do.....	96,644	62,416	40,901	67,982	51,702	18,119	6,517	4,080	5,938	4,657
Crude.....do.....	1 27,099	33,554	27,357	51,407	41,126	12,474	3,086	2,456	4,184	3,455
Refined.....do.....	1 29,688	28,862	13,544	16,575	10,576	13,439	3,481	1,604	1,754	1,201
Corn oil.....do.....	4,404	3,847	1,824	310	337	1,269	518	190	35	50
Cocoa butter.....do.....	1 019	2,432	1,667	342	2,433	447	688	209	130	778
Vegetable oil hard compounds.....do.....	1 12,577	8,223	7,586	5,431	5,681	1,628	1,229	1,097	715	760
Other edible vegetable oils and fats.....do.....				3,075	3,693				474	590
<b>F. Cocoa and coffee</b> .....do.....	1 36,232	31,132	34,034	24,025	12,688	7,728	8,679	9,808	6,880	4,113
Cocoa, powdered.....do.....	1 7,719	3,488	2,351	3,464	2,133	440	345	304	378	351
Chocolate, including sweetened.....do.....		1,571	1,181	930	926		333	252	224	226
Coffee, green.....do.....	26,775	23,584	28,062	16,806	6,440	6,981	6,863	8,050	5,018	2,066
Coffee, roasted.....do.....	1 551	1,623	1,371	1,653	2,080	307	571	532	603	760
Coffee extracts and substitutes.....do.....	1 749	866	1,069	1,172	1,109		537	667	658	710
<b>G. Spices</b> .....do.....	1 1,542	1,172	1,081	1,506	1,679	73	304	304	240	273
<b>H. Sugar and related products</b> .....do.....										
Sugar, refined.....do.....	70,988	882,928	738,716	250,646	245,173	10,725	40,433	19,935	21,600	20,077
Molasses.....do.....	3,511	4,253	3,107	6,063	10,663	2,969	28,100	7,570	10,311	8,548
Confectionery.....do.....						387	440	396	438	969
Chocolate.....do.....										
Other.....do.....	11,349	2,685	2,040	2,015	2,091	1,086	767	566	606	620
Chewing gum.....do.....	1 1,295	11,402	12,490	12,389	12,389		1,861	1,959	2,131	2,146
Honey.....do.....	1 3,143	4,388	5,026	3,769	3,028	134	1,292	2,194	1,353	1,353
Glucose (corn sirup).....do.....	3,357	5,089	7,754	12,055	10,752	362	937	700	1,053	971
Grape sugar (corn sugar).....do.....	139,527	146,068	146,718	135,634	122,762	3,116	5,660	4,594	4,403	4,280
Sirup, including maple.....do.....	40,967	7,874	9,752	6,451	8,374	873	1,08	321	224	295
	14,109	5,166	3,668	2,665	3,024	1,996	1,192	996	796	905

1 Average for years 1922-1925

2 Average for years 1913-14.

3 Average for 1923-1925

4 "Other fresh fruits" are included with "other dried and evaporated."

5 Average for years 1924-25.

## No. 537.—EXPORTS OF UNITED STATES MERCHANDISE BY COMMODITY GROUPS AND ARTICLES—Continued

Group and article	Quantity					Value in thousands of dollars				
	1910-1914	1921-1925	1926	1927	1928	1910-1914	1921-1925	1926	1927	1928
<b>GROUP 1.—VEGETABLE FOOD PRODUCTS AND BEVERAGES—Continued</b>										
<b>I. Beverages.</b>										
Malt extract and sirup.....	2, 679	240	422	476	519	3, 955	2, 092	1, 776	1, 884	2, 189
Distilled liquors.....	1, 512	238	118	204	34	1, 209	166	361	400	429
Flavoring extracts ".....	1, 354	498	597	648	624	2, 062	623	123	27	102
Mineral waters, natural and artificial.....	1 216	207	256	198	196	1 127	428	457	493	560
Other beverages and fruit juices ".....	1 279	407	424	503	602	537	1 180	192	173	184
do.....							448	652	791	914
<b>GROUP 2.—VEGETABLE PRODUCTS, INEDIBLE, EXCEPT FIBERS AND WOOD</b>										
<b>Total</b> .....						100, 568	276, 289	282, 189	290, 880	302, 743
<b>A. Rubber and manufactures.</b>										
Rubber, reclaimed.....	5, 002	4, 747	12, 076	19, 130	21, 453	12, 444	39, 003	60, 793	70, 691	69, 545
Rubber, scrap and old.....	6, 801	16, 486	29, 843	31, 332	45, 327	792	496	1, 067	1, 751	1, 641
Rubberized piece goods and hospital sheeting.....						712	708	1, 947	1, 946	2, 302
Rubber footwear—										
Boots.....			1, 331	2, 331	1, 774			682	1, 098	862
Shoes.....	2, 879	487	1, 013	874	1, 263		1, 166	2, 372	2, 074	2, 817
Canvas shoes with rubber soles.....		1, 481	1, 486	1, 911	2, 525	1, 652	1, 399	1, 452	1, 709	2, 768
Rubber water bottles and fountain syringes.....		13, 832	5, 460	4, 780	5, 313		12, 883	3, 291	3, 289	3, 675
Rubber gloves.....			300	339	360			214	207	225
Other druggists' rubber sundries.....			69, 617	76, 294	94, 364			1, 129	244	243
Rubber balloons.....									467	278
Rubber toys and balls.....				562	625					430
Bathing caps.....							16 1, 135	846	759	751
Hard rubber goods—							16 296	334	340	375
Electrical hard rubber goods.....		164	151	158	162					
Other hard rubber goods.....		1 752	839	1, 247	1, 626			279	314	328
<b>Tires—</b>										
Casings, automobile.....								595	383	353
Tubes, automobile.....		11, 392	1, 497	2, 631	2, 504		16, 288	24, 369	33, 789	31, 065
Other casings and tubes.....		1 133	1, 127	1, 631	1, 656		1, 949	3, 024	3, 469	3, 631
Solid tires.....		1 104	71	61	62		282	219	174	126
For automobiles and motor trucks.....										
Other.....	1 91, 972	112, 592	98, 122	97, 001	56, 255		2, 213	3, 458	2, 887	1, 893
.....1,000 lbs.	1, 148	1, 715	1, 551	1, 765	1, 852		1 290	502	456	400



<b>The rubber accessories and repair materials.</b>									
Rubber and friction tape.....	1,000 lbs.	1,347	1,087	1,480	1,590	1,574	1,104	1,612	1,833
Rubber belting.....	do.	4,070	5,011	4,887	4,887	2,852	2,425	2,657	1,483
Rubber hose.....	do.	1,402	3,340	6,125	7,118	1,852	2,088	2,882	2,765
Rubber packing.....	do.	1,628	1,915	2,415	2,629	1,769	1,881	2,623	2,620
Rubber soles and heels.....	1,000 doz. pirs.	1,179	1,517	1,460	1,470	742	1,063	1,907	1,911
Rubber thread.....	1,000 lbs.			1,626	1,601	1,937	1,526	1,526	1,911
Rubber bands and erasers.....	do.			685	891	1,326	1,816	1,958	1,784
Other rubber manufactures.....	do.				913	4,103	2,362	2,412	2,613
<b>B. Naval stores, gums, and resins.</b>									
<b>Naval stores—</b>									
Rosin.....	1,000 bbls. is	1,348	1,088	1,094	1,382	13,772	18,889	24,633	27,616
Gum rosin.....	do.			956	1,238	11,278	13,889	21,904	15,563
Gum resin.....	do.			138	144	152	2,730	2,155	2,053
Gum spirits of turpentine.....	1,000 gals.	17,989	10,636	11,587	15,810	9,388	11,346	10,636	9,505
Wood turpentine.....	do.		1,508	681	681	1,408	439	395	6,678
Tar and pitch of wood.....	barrels is	19 60,963	14,025	13,702	27,676	19 280	202	220	216
Other gums and resins.....	1,000 lbs.		2,807	3,095	3,756	1 679	833	845	1,369
<b>C. Drugs, herbs, leaves, and roots, crude.</b>									
Onion.....	1,000 lbs.	190	168	180	169	1,985	2,961	3,337	3,273
Other crude vegetable drugs.....	do.		5,743	4,922	4,864	2,031	1,668	2,556	2,268
<b>D. Oils.</b>									
<b>Vegetable oils</b> .....	do.	39,992	3,244	3,686	2,452	1,709	2,211	168	96
Expressed oil and fats, inedible—	do.								
Coconut oil.....	do.		14,579	17,901	15,922	59,985	4,194	5,430	6,572
Lined oil.....	do.		2,820	2,487	2,525	29,418	1,316	1,545	1,783
Soy-bean oil.....	do.		1,708	1,567	5,444	308	364	555	304
Vegetable soap stock.....	do.		1,630	7,751	12,339	10,164	44	191	736
Other pressed oils and fats.....	do.		8,537	8,816	7,529	832	469	607	402
Essential or distilled oils—	do.								
Peppermint.....	do.	128	68	213	177	340	511	571	604
Other.....	do.		1,321	3,617	4,069	316	1,298	1,291	1,283
<b>F. Dyeing and tanning materials.</b>									
<b>Dye extracts—</b>									
Logwood extract.....	1,000 lbs.		1,207	1,862	2,724	2,372	1,939	1,939	2,745
Other dye extracts.....	do.		1,306	696	1,049	349	252	204	209
Dyeing and tanning materials, crude.....	tons	1,208	2,692	1,341	1,529	345	151	138	96
Tanning extracts—	do.					96	141	60	82
Chestnut.....	1,000 lbs.		1,826	6,176	5,875	1 268	217	175	351
Other.....	do.		1,255	21,517	38,200	1 141	1,178	1,262	1,967

Average for years 1922-1925.

Average for years 1911-1914.

<sup>16</sup> Average for years 1924-25,

17 "Fruit juices" are included

is Of 500 pounds.

10 Tar, turpentine, and pitch

## No. 537.—EXPORTS OF UNITED STATES MERCHANDISE BY COMMODITY GROUPS AND ARTICLES—Continued

Group and article	Quantity						Value in thousands of dollars				
	1910-1914	1921-1925	1925	1926	1927	1928	1910-1914	1921-1925	1925	1926	1927
<b>GROUP 2. VEGETABLE PRODUCTS, INEDIBLE—Contd.</b>											
<b>G. Seeds, except oilseeds.</b> .....1,000 lbs.											
Field and garden seeds—											
Alfalfa.....do		1 780	1,333	742	1,383	782		1 138	219	157	280
Red clover.....do		2 935	416	584	1,280	456		611	101	163	314
Other clover.....do			721	1 160	1,793	390	672		199	254	191
Timothy.....do		17,183	12,435	13,683	16,670	12,220	817	4,262	946	1,021	885
Other grass seeds.....do		4 610	5 008	6 889	5 060	5,238	583	747	875	1,116	854
Other field seeds.....do			4 502	4 287	4 238	2,374	543	1,092	125	605	171
Vegetable and flower seeds.....do			4 059	3 260	4 238	3,314			974	684	949
<b>H. Nursery and greenhouse stock.</b>											
Flowers, cut.....do								499	494	491	494
Fruit stock, cuttings, or seedlings.....do							59	110	125	158	179
All other nursery or greenhouse stock, plants, and bulbs.....do			1 685	2 125	1,575	3,043	370	329	99	109	94
<b>I. Tobacco and manufactures.</b>											
Tobacco, unmanufactured.....1,000 lbs.											
Leaf tobacco.....do	392,183	502,969	477,489	487,068	511,808	583,845	50,299	187,219	171,308	187,418	176,159
Bright flue-cured.....do	388,284	487,157	468,471	478,772	506,252	575,411	44,788	164,595	153,787	136,919	139,667
Dark-fired, Kentucky and Tenn.....do		10 241,259	278,379	287,334	302,425	494,898	44,086	163,883	183,351	186,675	154,133
Dark Virginia.....do		10 6 472	6 017	6 729	17,844	6 544		10 98,352	109,979	102,607	100,212
Green River.....do		10 146,027	116,974	119,847	112,008	84,014		10 1,747	1,816	1,385	2,393
Maryland and Ohio export.....do		10 33,258	20 343	18,390	24,277	18,695		10 25,908	22,955	18,561	14,769
One-stucker leaf.....do		10 14,635	13,913	13,862	20,036	10,947		10 13,881	7,718	6,149	5,177
Black fat, water baler, dark African.....do		10 16,038	17,971	14,076	12,899	8,368		10 2,839	2,622	2,108	2,023
Cigar leaf.....do		10 912	883	619	619	1,500		10 3,550	3,906	2,576	1,982
Other leaf tobacco.....do		10 37,608	14,092	18,185	9,313	6,556		10 470	620	442	118
Stems, trimmings, and scrap tobacco.....do	3,899	15,811	9,017	8,295	5,617	8,434	102	712	436	242	287
<b>Tobacco manufactures.</b>											
Cigarettes.....millions	1,786	10,182	8,146	9,639	7,063	11,706	5,611	22,624	17,516	20,499	16,627
Chewing tobacco, plug and other.....do	6,554	3,538	3,725	3,661	3,728	3,832	1,731	19,631	15,043	17,898	13,887
Smoking tobacco (including cigar cuttings).....do	1,350	2,386	1,138	1,066	1,184	1,015	679	1,775	1,739	1,783	1,866
Other tobacco manufactures.....do				529	217	238	278	931	605	635	728
								288	129	184	106

J. Miscellaneous vegetable products										13,515
Starch—										11,815
Cornstarch and corn flour	96,206	{ 250,075	222,267	203,789	242,870	236,746	6,885	13,563	14,448	12,027
Other starch	15,592	{ 10,482	10,482	21,531	9,651	4,336	2,163	{ 7,069	7,978	6,241
do	4,122	{ 4,912	4,912	4,082	4,048	4,336	363	{ 460	379	623
Broom corn	1,19,367	{ 22,133	22,133	18,235	18,540	15,942	1,159	112	682	537
Brooms	15,548	{ 18,286	20,655	12,833	14,119	7,985	4,112	4,830	4,534	3,355
Hops							93	454	799	1,173
Other inedible vegetable products										1,168
GROUP 3.—TEXTILES										1,124,489
Total							618,086	997,187	1,278,370	1,021,357
A. Cotton, unmanufactured										920,008
(1,000 bales	8,532	6,889	6,882	9,048	9,478	8,732	551,880	804,985	1,069,762	814,499
(1,000 lbs	4,419,862	3,420,430	4,384,169	4,691,879	4,897,063	4,578,427		801,370	1,053,289	810,365
(1,000 bales		6,528	8,352	8,916	9,199	8,540				
Lint cotton		3,363,726	4,286,281	4,620,744	4,799,823	4,471,843				
Long staple (1½ inches or over)	22			2		1	2,156	101	103	528
Sea-island	8,440	226	171	1,111	776	356				
(1,000 lbs										
Other "	8,510	2,222	1,623	1,285	1,194	1,104	549,734	235,610	215,741	127,055
(1,000 bales	4,411,362	1,150,372	839,761	674,856	621,861	576,211		1,707,074	837,445	682,783
(1,000 lbs		1,5382	6,739	7,628	8,003	7,441		3,615	6,463	4,064
Short staple (under 1½ inches)		2,766,410	3,458,349	3,944,775	4,117,187	3,892,276				
(1,000 bales		111	170	132	279	186				
(1,000 lbs		56,704	87,878	70,835	157,239	107,584				
Linters										
B. Cotton semimanufactures										76
Cotton-mill waste	62,273	88,293	119,008	103,414	140,470	109,688	4,652	15,395	22,912	19,060
do		59,245	77,048	66,788	96,522	63,429	3,853	6,739	8,721	6,078
Cotton rags, except paper stock	10,359	13,559	19,068	12,590	15,407	19,199	1,496	967	1,551	850
Cotton batting, carded cotton, and roving										
(1,000 lbs						415				
Cotton yarn—										
Carded yarn, not combed										
do										
Combed yarn										
do										
Mercerized										
do										
Not mercerized										
do										
C. Cotton manufactures										110,417
Cotton thread and cordage—							40,502	117,667	123,955	109,708
Sewing thread		1,400	960	1,299	1,287	1,031		1,660	1,047	1,280
do										
Crochet, darning, and embroidery cotton								1,202	136	160
(1,000 lbs		1,186	98	123	136	135		1,569	2,036	1,892
do		1,3,558	4,585	4,994	4,550	3,755				
Twine and cordage										
do										
Cotton cloth, duck, and tire fabric										79,398
(1,000 sq. yds. <sup>1</sup>	398,574	524,832	543,317	513,300	565,091	548,847	27,052	79,875	85,011	74,689
Tire fabric—										
Cord				787	3,454	4,742				
do				1,216	1,525	1,068				
Other										
do										

<sup>1</sup> Average for years 1922-1925.

<sup>2</sup> Data for 1910-1914 are "Upland and other" and include linters.

<sup>3</sup> Stated in thousands of linear yards prior to Jan. 1, 1922.

## No. 537.—EXPORTS OF UNITED STATES MERCHANDISE BY COMMODITY GROUPS AND ARTICLES—Continued

Group and article	Quantity						Value in thousands of dollars					
	1910-1914	1921-1925	1925	1926	1927	1928	1910-1914	1921-1925	1925	1926	1927	1928
<b>GROUP 3. TEXTILES—Continued.</b>												
<b>2. Cotton manufactures—Continued.</b>												
Cotton cloth, duck, and tire fabric—Contd.												
Cotton duck.....1,000 sq yds.		9,597	11,557	11,302	15,161	13,847		4,229	5,065	4,184	4,740	4,776
Heavy filter, paper dryer, hose, and belt- ing duck.....1,000 sq yds.		7,451	9,024	9,166	11,927	640		3,410	4,150	3,413	3,756	451
Unbleached (gray).....do					5,998	9,905					1,698	3,316
Ounce.....do					5,930	4,743					2,121	1,498
Numbered.....do		1,330	1,717	1,253	1,927	1,935		520	617	453	610	588
Bleached.....do		817	816	883	1,307	1,367		300	238	315	374	451
Colored.....do												
Cotton cloth.....do		515,335	531,780	499,995	544,881	526,690		75,646	79,946	69,556	70,216	71,885
Unbleached.....do	196,667	147,866	120,581	119,608	125,719	124,293	13,458	16,347	16,066	12,465	11,366	11,713
Drills and twills.....do						13,431						1,664
Sheetings, 40 inches and under.....do						73,435						6,586
Sheetings, over 40 inches.....do						1,628						191
Osnaburgs.....do						20,275						2,083
All other.....do						15,474						1,189
Bleached.....do	33,848	87,278	92,938	98,359	87,301	96,269	2,590	12,658	13,352	12,371	9,984	11,098
40 inches wide and under.....do						90,222						10,222
Over 40 inches wide.....do						6,047						876
Colored.....do	169,059	280,191	308,240	292,029	331,862	306,028	10,974	46,641	51,499	44,730	48,876	49,074
Voiles.....do						46,020						7,327
Percates and prints— 32 inches and narrower.....do						33,522						3,549
Over 32 inches wide.....do						11,863						1,577
Flannels and flannelettes.....do						4,898						728
Khaki and fustans.....do						4,342						876
Denims.....do						14,518						2,857
Suitings (drills, etc.).....do						27,233						4,618
Ginghams.....do						13,324						1,512
Chambrays.....do						12,339						1,372
All other printed fabrics.....do						40,912						7,318
All other piece-dyed fabrics.....do						58,681						9,470
All other yarn-dyed fabrics.....do						23,309						3,715
Cotton and rayon mixtures (cotton chief value).....1,000 sq yds.						15,077						4,168

Other cotton fabrics—																			
Blankets.....	1,421	1,265	1,492	1,583	1,353	894	818	860	926	817									
Blankets.....	1,518	434	306	372	780	1,178	160	108	97	213									
Diapers.....																			
Flie fabrics, plushes, velveteens, and corduroys.....	1421	335	417	590	635	1,399	355	430	546	513									
Tapestries and other upholstery.....	196	53	66	78	432	1,136	86	86	112	258									
Other cotton goods.....	3,902	3,250	2,649	3,703	9,004	11,915	1,520	1,226	1,503	3,337									
<b>Cotton wearing apparel.</b>										14,339									
Knit goods—										15,770									
Gloves.....	172,034	129,424	130,772	149,753	88	1,130	232	270	212	153									
Hosiery.....	4,564	5,534	4,745	4,337	3,875	9,114	10,494	8,407	7,330	6,728									
Women's.....					2,032					1,135									
Children's.....					715					1,903									
Men's socks.....					1,130					2,108									
Underwear.....	1,124	1,019	794	663	1,584	4,476	3,828	3,214	2,541	2,108									
Sweaters, shawls, and other knit outerwear.....				509	566	455	445	495	412	461									
Other wearing apparel—										425									
Collars and cuffs.....	1343	428	363	356	287	522	683	570	525	425									
Overalls, breeches, pants.....	115,040	11,707	11,987	12,715	33,255	1,247	1,777	1,668	1,660	421									
Underwear, not knit.....	1,190	222	201	162	120	1,021	1,213	922	750	581									
Shirts.....	1,216	217	203	210	184	2,918	2,497	2,340	1,988	1,769									
Dresses, skirts, and waists.....	1,303	241	233	209	456	1,495	1,239	223	1,511	511									
Other cotton clothing.....						12,299	2,311	1,898	1,619	1,176									
Other cotton manufactures—										156									
Handkerchiefs.....	1,344	296	259	225	238	1,242	190	179	143	166									
Laces, embroideries, and lace window curtains.....	7,005	7,387	8,970	6,406	5,431	420	310	258	216	211									
Cotton belting for machinery.....	1,407	521	649	521	478	10,197	263	262	321	285									
Cotton bags.....	13,874	5,414	6,611	6,575	9,354	11,192	1,880	1,705	1,363	2,065									
Quilts, comforts, counterpanes, etc.....	182,121	93,556	89,382	87,589	103,898	1,154	180	154	137	275									
Bed sheets, pillow, bolster, and mattress cases.....	118,493	21,448	18,172	24,486	29,295	1,176	201	171	172	218									
Towels, bath mats, wash cloths.....	1,889	376	452	455	784	1,890	864	927	899	1,097									
Other cotton manufactures.....						7,771	6,929	6,883	7,248	4,661									
D. Jute manufactures.										3,744									
Jute yarn, cordage, and twine.....	11,028	402	335	1,042	1,247	2,769	3,740	3,581	3,498	3,744									
Bagging for covering cotton.....	11,821	1,886	3,013	3,322	709	1,166	168	207	87	64									
Bags of jute.....	131,062	32,551	26,011	29,099	30,161	2,142	3,055	2,794	2,921	3,150									
Other jute manufactures.....				2,843	3,886	1,373	350	308	222	335									
E. Flax, hemp, and ramie manufactures.										519									
Flax manufactures—										454									
Flax yarn, cordage, and twine.....	1,028	402	335	1,042	1,247	2,769	3,740	3,581	3,498	3,744									
Bagging for covering cotton.....	11,821	1,886	3,013	3,322	709	1,166	168	207	87	64									
Bags of flax.....	131,062	32,551	26,011	29,099	30,161	2,142	3,055	2,794	2,921	3,150									
Other flax manufactures.....				2,843	3,886	1,373	350	308	222	335									

<sup>1</sup> Stated in thousands of linear yards prior to Jan. 1, 1922.

<sup>2</sup> Average for years 1922-1923.

<sup>3</sup> Average for years 1913-14.

<sup>4</sup> Average for years 1922-1923.

<sup>5</sup> Average for years 1922-1923.

<sup>6</sup> Average for years 1922-1923.

<sup>7</sup> Average for years 1922-1923.

<sup>8</sup> Average for years 1922-1923.

<sup>9</sup> Average for years 1922-1923.

<sup>10</sup> Average for years 1922-1923.

<sup>11</sup> Average for years 1922-1923.

<sup>12</sup> Average for years 1922-1923.

<sup>13</sup> Average for years 1922-1923.

<sup>14</sup> Average for years 1922-1923.

<sup>15</sup> Average for years 1922-1923.

<sup>16</sup> Average for years 1922-1923.

<sup>17</sup> Average for years 1922-1923.

<sup>18</sup> Average for years 1922-1923.

<sup>19</sup> Average for years 1922-1923.

<sup>20</sup> Average for years 1922-1923.

<sup>21</sup> Average for years 1922-1923.

<sup>22</sup> Average for years 1922-1923.

<sup>23</sup> Average for years 1922-1923.

<sup>24</sup> Average for years 1922-1923.

<sup>25</sup> Average for years 1922-1923.

<sup>26</sup> Average for years 1922-1923.

<sup>27</sup> Average for years 1922-1923.

<sup>28</sup> Average for years 1922-1923.

<sup>29</sup> Average for years 1922-1923.

<sup>30</sup> Average for years 1922-1923.

<sup>31</sup> Average for years 1922-1923.

<sup>32</sup> Average for years 1922-1923.

<sup>33</sup> Average for years 1922-1923.

<sup>34</sup> Average for years 1922-1923.

<sup>35</sup> Average for years 1922-1923.

<sup>36</sup> Average for years 1922-1923.

<sup>37</sup> Average for years 1922-1923.

<sup>38</sup> Average for years 1922-1923.

<sup>39</sup> Average for years 1922-1923.

<sup>40</sup> Average for years 1922-1923.

<sup>41</sup> Average for years 1922-1923.

<sup>42</sup> Average for years 1922-1923.

<sup>43</sup> Average for years 1922-1923.

<sup>44</sup> Average for years 1922-1923.

<sup>45</sup> Average for years 1922-1923.

<sup>46</sup> Average for years 1922-1923.

<sup>47</sup> Average for years 1922-1923.

<sup>48</sup> Average for years 1922-1923.

<sup>49</sup> Average for years 1922-1923.

<sup>50</sup> Average for years 1922-1923.

<sup>51</sup> Average for years 1922-1923.

<sup>52</sup> Average for years 1922-1923.

<sup>53</sup> Average for years 1922-1923.

<sup>54</sup> Average for years 1922-1923.

<sup>55</sup> Average for years 1922-1923.

<sup>56</sup> Average for years 1922-1923.

<sup>57</sup> Average for years 1922-1923.

<sup>58</sup> Average for years 1922-1923.

<sup>59</sup> Average for years 1922-1923.

<sup>60</sup> Average for years 1922-1923.

<sup>61</sup> Average for years 1922-1923.

<sup>62</sup> Average for years 1922-1923.

<sup>63</sup> Average for years 1922-1923.

<sup>64</sup> Average for years 1922-1923.

<sup>65</sup> Average for years 1922-1923.

<sup>66</sup> Average for years 1922-1923.

<sup>67</sup> Average for years 1922-1923.

<sup>68</sup> Average for years 1922-1923.

<sup>69</sup> Average for years 1922-1923.

<sup>70</sup> Average for years 1922-1923.

<sup>71</sup> Average for years 1922-1923.

<sup>72</sup> Average for years 1922-1923.

<sup>73</sup> Average for years 1922-1923.

<sup>74</sup> Average for years 1922-1923.

<sup>75</sup> Average for years 1922-1923.

<sup>76</sup> Average for years 1922-1923.

<sup>77</sup> Average for years 1922-1923.

<sup>78</sup> Average for years 1922-1923.

<sup>79</sup> Average for years 1922-1923.

## No. 537.—EXPORTS OF UNITED STATES MERCHANDISE BY COMMODITY GROUPS AND ARTICLES—Continued

Group and article	Quantity						Value in thousands of dollars					
	1910-1914	1921-1925	1925	1926	1927	1928	1910-1914	1921-1925	1925	1926	1927	1928
<b>GROUP 3.—TEXTILES—Continued</b>												
<b>Other vegetable fiber manufactures</b>												
Cordage, except of cotton or jute—												
Binder twine.....1,000 lbs.	94,403	61,280	54,247	36,500	19,286	30,525	9,560	9,480	9,226	6,970	4,892	6,345
Manila cordage.....do.			5,084	5,100	4,680	4,329	7,027	7,140	7,107	4,712	2,253	3,393
Sisal or maneneque cordage.....do.			1,233	1,135	749	4,899			1,138	1,107	640	767
Other cordage.....do.	13 10,687	13 6,899	1,790	463	492	353	23 967	23 1,206	159	150	88	478
Oakum.....do.		1,761	2,066	1,864	2,027	2,068	61	144	183	98	80	167
Other vegetable fiber, straw, or grass manufactures.....do.	1,351									107	181	173
							24 1,505	24 990	480	736	1,338	1,517
<b>Hats of straw or fiber and materials</b>												
Hat, broad of straw or other fiber.....1,000 yds.		1 15,855	7,084	6,928	9,254	9,435		983	558	417	387	533
Hats of straw, palm leaf, etc.....1,000 hats.		1 528	404	340	319	725		1 150	82	65	111	88
								863	476	352	276	445
<b>Wool and mohair, unmanufactured.....1,000 lbs.</b>	92	699	273	292	323	435	31	204	146	121	139	180
<b>Wool semimanufactures</b>												
Wool rags.....1,000 lbs.	14,987	9,293	9,054	11,093	15,124	18,270	521	934	941	1,024	1,175	1,650
Wool matts and waste.....do.	8 24,979	8,580	10,291	10,291	14,233	17,397	8 867	641	681	807	967	1,366
Wool yarns.....do.		1 774	618	769	796	828		1 138	127	158	121	195
		1 118	56	33	35	45		1 229	133	59	67	89
<b>Wool manufactures</b>							2,916	6,708	4,932	3,954	3,978	4,870
Fabrics wholly or chiefly of wool—												
Wool cloth and dress goods.....1,000 lbs.		938	425	325	349	345		1,869	395	648	605	653
Mohair cloth.....1,000 yds.		1,401	716	520	531	498						
Other wool fabrics.....1,000 lbs.		1 97	63	65	46	83		1 216	151	163	133	181
Carpets and rugs of wool.....1,000 lbs.		1 184	120	99	111	133						
Wool felts.....sq. yds.		1 112	60	43	44	58		1 156	87	61	70	98
Wool wearing apparel—		1 79,338	98,971	96,116	80,557	124,600		1 234	207	282	332	667
Knitted bathing suits.....1,000 lbs.		1 408	390	320	259	238		1 519	553	483	371	305
Other knit goods.....dozen					12,036	26,036		1 440	544	725	342	723
Men's and boys' overcoats, suits, pants, etc.....1,000 pieces.					37,554	36,618					397	467
Women's and children's wool clothing, etc.....1,000 pieces.					173	136		1 412	1,210	639	558	654
Other wool or mohair manufactures.....1,000 pieces.					47	54		1 012	573	385	373	456
							1,044	1,163	712	568	709	657

										1,993	2,555	2,918	2,946	2,986
<b>L. Hair and manufactures.</b>										1,389				
Hair, unmanufactured—														
Cattle.....1,000 lbs.														
Other.....do.										1,414	875	671	715	904
Hair manufactures.....do.										279	1,373	1,283	1,816	1,452
											307	314	315	330
<b>M. Silk manufactures.</b>										13,992	18,181	17,788	15,999	18,648
Traw, orgazine, hard twists, and spun silk.....pounds														
Sewing, embroidery, and crochet silk.....do.										1,392	573	583	679	951
Fabrics wholly or chiefly of silk.....do.										1,623	689	690	703	622
Broad silks.....1,000 yds.														
Velvets, plushes, and chenilles, including ribbon.....pounds										3,146	3,152	3,870	2,708	3,448
Silk ribbons, except velvet and plush.....1,000 yds.										1,223	124	114	93	62
Silk wearing apparel—														
Underwear.....number										1,489	315	202	206	127
Dresses, skirts, waists, and houses.....do.														
Hosiery.....1,000 doz. pairs										1,155	237	169	144	105
Women's seamless.....do.										1,893	905	1,033	1,182	1,818
Women's full fashioned.....do.										1,627	10,368	8,995	8,021	9,658
Children's.....do.														
Men's socks.....do.										8,114				8,114
Other silk wearing apparel.....do.										1,668	677	507	384	742
Other silk manufactures.....do.										1,361	1,141	1,643	1,119	1,245
<b>O. Artificial silk (rayon) manufactures.</b>														
Yarn.....1,000 lbs.														
Embroidery, crochet, and knitting thread.....1,000 lbs.														
Tapestry and drapery fabrics.....sq. yds.														
Woven and knit dress and piece goods.....1,000 sq. yds.										3,019	6,177	4,709	3,932	1,288
Hosiery.....1,000 doz. pairs										1,091				3,613
Women's.....do.														2,279
Children's.....do.														287
Men's socks.....do.														1,067
Knit underwear.....do.														335
Ribbons, braids, fringes, and narrow trimmings.....1,000 yds.														
Other artificial silk manufactures.....do.										2,099	2,234	2,406	2,540	114
<b>P. Miscellaneous textile products.</b>														
Lincelium.....1,000 sq. yds.										1,696	23,037	22,153	21,920	94,310
Felt base and olecloth floor coverings.....do.														1,173
Coated or waterproof fabrics.....do.										114	1,578	1,072	1,325	1,855
Olecloth, except for floors.....do.														
Window shade and book cloth.....do.										590	2,085	2,237	2,305	2,344
											1,415	644	633	533

<sup>10</sup> Average for years 1923-1925.<sup>11</sup> Average for years 1912-1914.<sup>12</sup> Average for years 1913-1914.<sup>13</sup> Average for years 1922-1925.<sup>14</sup> Data prior to 1922 are "other manufactures of all vegetable fibers, straw, and grass," as 1925 only.

## No. 537.—EXPORTS OF UNITED STATES MERCHANDISE BY COMMODITY GROUPS AND ARTICLES—Continued

Group and article	Quantity					Value in thousands of dollars						
	1910-1914	1921-1925	1925	1926	1927	1928	1910-1914	1921-1925	1925	1926	1927	1928
<b>GROUP 3.—TEXTILES—Continued</b>												
<b>P. Miscellaneous textile products—Continued</b>												
Coated or waterproof fabrics—Continued.												
Leather cloth, or artificial leather												
Waterproofed auto cloth " 1,000 sq. yds.	10 4, 455	5, 520	4, 991		5, 268	6, 202	2 402	2, 420	3, 553	3, 091	2, 955	3, 555
Waterproofed outer garments..... thousands	10 2, 285	2, 962	2, 191		2, 178	2, 349		1 1, 190	1, 537	1, 247	1, 097	1, 297
Waterproofed auto cloth " 1,000 sq. yds.		276	217		358	372		1 605	703	513	729	777
Corsets, brassieres, and girdles... 1,000 pieces												
Pajamas, nightshirts, gowns..... dozens	1 691	967	1, 427		1, 402	1, 387	2 2, 227	1, 847	1, 967	2, 180	1, 902	1, 786
Hats and caps, except straw or other fiber—												
Men's and boys' fur-felt hats..... thousands												
Women's and children's fur-felt hats..... do	1 927	76	56		372	474		1, 042	1, 267	1, 835	1, 085	2, 047
Wool-felt hats..... do	1 205	169	110		184	453		1 374	260	167	168	218
Other hats and caps..... do	1 1, 328	1, 328	1, 037		1, 066	1, 131		1 1, 135	1, 228	977	866	854
Hat trimmings, artificial flowers, etc.												
Mattresses, cotton, kapoc, moss, hair, number	1 12, 472	11, 837	12, 550		21, 236	28, 285		723	533	467	346	455
Absorbent cotton, gauze, and surgical dressings..... 1,000 lbs	16 2, 934	3, 038	3, 199		3, 165	3, 275		1 109	105	110	124	173
Elastic webbing..... 1,000 yds								16 2, 118	2, 221	2, 284	2, 149	2, 238
Garters and arm bands..... 1,000 doz. prs	1 482	607	721		606	567		1 982	815	923	930	885
Suspenders and braces..... dozens	1 58, 662	47, 757	35, 518		30, 999	27, 166		1 196	155	114	102	92
Other textile manufactures								1 2, 097	3, 357	3, 547	3, 772	2, 255
<b>GROUP 4.—WOOD AND PAPER</b>												
Total							109, 686	153, 293	176, 062	179, 747	182, 159	200, 891
<b>A. Wood unmanufactured</b>												
Logs and hewn timber—												
Hardwoods..... 1,000 ft. b. m.	15, 446	24, 427	12, 938		19, 302	16, 411	5, 080	8, 123	9, 245	11, 079	12, 525	15, 784
Softwoods—												
Southern pine..... do												
Douglas fir..... do												
Cedar..... do	109, 275	107, 790	138, 463		186, 976	261, 520	3, 770	3, 376	3, 120	3, 595	4, 112	5, 953
Other soft woods..... do		13, 535	50, 558		80, 690	116, 136			242	1, 184	1, 670	1, 670
Railroad ties..... thousands	2 702	3, 405	3, 761		3, 550	4, 163	2 591	2, 978	2, 975	3, 508	3, 560	3, 574
Hardwood..... do	1 564	194	194		224	296		1 709	216	216	220	281
Softwood..... do	1 2, 026	2, 694	2, 018		2, 468	2, 949		1 1, 826	2, 329	2, 201	2, 141	2, 088
Cresoted or otherwise preserved..... do			949		839	918				1, 091	1, 191	1, 205



Piling.....1,000 lin. ft.	1,514	1,627	4,472	4,686	6,458	1,433	444	987	1,228	2,047
Telegraph, trolley, and electric-light poles	1 51,766	54,968	63,455	44,871	89,237	1 274	315	312	214	429
Firewood and other unimfr'd.....1,000 cu. ft.	1 2,245	2,303	3,278	2,425	2,931	284	104	187	190	198
B. Wood, semimanufactures—sawmill products.						66,036	99,588	97,444	107,574	108,798
Sawn timber.....1,000 ft. b. m.	482,624	554,519	737,181	761,689	756,966	10,337	15,834	18,438	20,436	19,443
Softwoods—										
Southern pine.....do	147,638	154,467	121,080	178,395	160,740	5,576	6,354	4,867	7,995	6,751
Douglas fir.....do	340,742	555,338	544,827	544,827	556,224	10,837	7,309	11,499	11,225	11,263
Cedar.....do	322,622	35,581	27,955	5,257	2,499	8,839	1,434	1,025	1,187	1,108
Other softwoods.....do	20,212	27,415	26,556	26,556	30,999	353	250	138	622	865
Hardwoods.....do	5,498	3,517	1,930	1,094	1,618				69	106
Crossed or otherwise preserved—										
Southern pine.....do	1 309	3,743	4,133	3,743	4,133			94	229	284
Other sawed timber.....do	1 534	1,827	753	1,827	753			72	100	39
Boards, planks, and scantling.....do	2,221,261	1,947,809	1,956,727	2,138,692	2,353,890	50,886	83,027	78,219	86,465	88,592
Softwoods.....do	1 301,617	1,585,725	1,604,189	1,781,336	1,897,043	48,887	57,275	53,224	58,804	59,179
Cypress.....do	8,246	9,069	8,300	10,849	7,538	2 438	589	501	598	492
Douglas fir.....do	563,869	607,908	694,486	685,907	708,076	8,853	13,925	15,273	15,379	16,624
Rough.....do	10 560,274	587,424	651,478	627,791	708,404	10 14,141	13,213	14,042	13,764	14,914
Dressed.....do	10 22,862	20,484	43,008	58,116	64,672	10 936	712	1,231	1,615	1,710
Southern pine.....do	580,975	701,045	681,564	710,549	708,735	24,261	31,548	25,779	30,312	29,004
Rough.....do	10 557,469	610,841	491,454	614,781	625,213	10 23,936	27,737	21,874	26,535	25,533
Dressed.....do	10 117,190	90,205	90,110	95,768	83,522	10 4,983	3,811	3,905	3,958	3,471
White, western, and sugar pine.....do	255,437	49,070	34,673	33,763	32,976	2 534	2,111	1,991	1,941	1,911
Cedar.....do	1 59,529	38,705	45,235	19,094	25,645	2 563	3,257	2,647	3,702	1,184
Redwood.....do	1 18,516	27,636	27,701	65,930	59,815	1 636	1,410	1,595	1,423	3,347
Spruce.....do	120,973	126,972	179,669	24,862	29,004	10 3,013	2,698	3,856	1,034	1,223
Hemlock.....do	44,435	32,121	10,417	211,607	256,143			3,256	5,101	5,101
Small softwood dimension stock.....do	29,163	8,291	4,576	10,764	4,576	1 836	1,552	316	140	140
Other softwoods.....do	277,168	362,064	352,538	407,356	461,847			1,428	310	163
Hardwoods.....do	10 20,812	25,141	17,526	28,134	30,083	20,279	25,752	24,965	27,661	29,411
Ash.....do	1 7,870	7,098	5,135	8,092	15,179	10 1,497	1,756	1,171	1,717	2,003
Birch, beech, maple.....do	71,560	46,412	59,035	52,194	60,061	1 562	470	431	521	589
Chestnut.....do	13,309	4,419	3,645	51,243	52,285	2 398	2,794	3,071	2,629	2,888
Cottonwood.....do	8 247,143	136,157	177,855	951	7,790	2 562	36	441	2,556	2,556
Gum.....do	30,539	21,798	32,207	34,554	38,965	1 318	429	311	377	451
Red and sap.....do				4,207	4,518	1 184	12,070	12,188	13,773	13,600
Tupelo and black.....do				212,202	229,404	9,283	2,202	2,171	2,190	2,324
Hickory.....do				34,554	38,965	1 799				
Oak.....do										
Poplar.....do										

<sup>1</sup> Average for years 1912-1914.

<sup>2</sup> Average for years 1922-1925.

<sup>3</sup> Average for years 1912-1914.

<sup>4</sup> Average for years 1922-1925.

<sup>5</sup> "Waterproofed auto cloth and rubberized fabrics" prior to 1928.

## No. 537.—EXPORTS OF UNITED STATES MERCHANDISE BY COMMODITY GROUPS AND ARTICLES—Continued

Group and article	Quantity						Value in thousands of dollars					
	1910-1914	1921-1925	1925	1926	1927	1928	1910-1914	1921-1925	1925	1926	1927	1928
<b>GROUP 4.—WOOD AND PAPER—Continued</b>												
<b>B. Wood, semimanufactures, etc.—Continued</b>												
<b>Boards, planks, and scantling—Continued</b>												
<b>Hardwoods—Continued</b>												
Walnut.....1,000 ft. b. m.	17,702	10,893	8,522	10,218	13,019	13,019	---	1,090	1,508	1,104	1,279	1,683
Mahogany.....do	17,422	19,002	17,965	17,043	16,010	16,010	---	18 2,512	2,694	2,697	2,555	2,380
Wagon-oak planks.....do	---	---	1,409	7,565	6,853	6,853	---	---	94	94	501	425
Small dimension stock.....do	---	---	1,950	1,640	5,391	5,391	---	---	201	201	185	550
Other hardwoods.....do	38,241	26,664	19,440	24,357	25,315	25,315	---	3,313	1,829	1,115	1,360	1,375
Other sawed lumber.....do	---	---	5,282	4,620	4,456	4,883	4,363	850	304	340	216	282
Lath.....thousands	131,800	26,069	49,948	29,240	21,384	21,384	149	138	126	239	146	92
Shingles.....do	59,640	30,570	41,903	53,927	87,948	114,166	---	163	196	218	322	420
<b>C. Wood manufactures</b>												
Cooperage.....thousands	69,246	---	---	67,567	81,425	80,462	25,668	30,946	38,110	37,884	38,069	37,526
Staves.....do	---	69,746	81,928	28,156	32,032	33,388	8,569	8,666	10,520	10,202	11,225	9,049
Tight staves.....do	---	1 23,898	31,511	39,411	49,394	47,074	5,853	3,879	4,828	4,136	4,816	4,676
Slack staves.....do	---	142,112	50,417	3,444	4,827	3,726	---	1 3,206	4,075	3,554	4,083	3,997
Heading.....1,000 sets	---	13,335	4,402	1,190	1,969	1,377	322	1742	753	583	679	679
Tight heading.....do	---	---	---	---	---	---	---	421	598	625	1,041	717
Slack heading.....do	---	---	---	---	---	---	---	---	---	454	765	531
Cooperage shooks—	---	---	---	2,254	2,838	2,349	---	---	---	171	277	186
Tight.....do	---	11,683	1,066	1,240	1,221	779	1,957	3,463	3,707	4,034	3,585	2,563
Slack.....do	---	---	879	892	1,365	441	---	---	---	561	825	279
Tight empty barrels, casks, hogsheds	---	1 360	304	353	399	357	7 546	873	862	846	978	814
<b>Box shooks—</b>												
Southern pine.....1,000 bd. ft.	---	---	11,344	10,743	14,063	15,373	---	---	528	569	718	702
Hemlock.....do	---	---	48,859	72,377	49,144	67,611	---	---	1,337	2,085	1,405	1,992
Spruce.....do	---	186,832	1,691	2,691	5,716	4,322	1,188	3,179	67	85	209	125
Grum.....do	---	---	---	---	---	5,261	---	---	---	---	---	300
Other.....do	---	---	40,121	34,820	28,186	14,683	---	---	1,807	1,687	1,289	661
<b>Veneers</b>												
Plywood.....1,000 sq. ft.	---	1 55,347	58,680	72,173	65,901	83,774	---	1 1,669	1,571	1,869	1,626	2,248
Veneer fruit and vegetable packages.....do	---	---	17,962	19,141	17,206	27,676	---	---	691	738	779	1,265
Hardwood flooring.....1,000 ft. b. m.	---	---	7,171	7,322	11,287	15,300	---	10 483	492	464	710	986
Doors.....thousands	10 6,384	1,371	1,825	1,825	2,122	1,675	1,086	1,643	2,700	3,351	3,730	2,961
Sash and blinds.....do	18 1,022	61	53	53	81	128	---	---	---	126	153	211
Trimings and moldings.....1,000 lin. ft.	18 4,644	5,203	6,048	6,048	6,997	10,513	808	256	220	225	235	345

Cane and reed manufactures, n e s.	thousands	186	181	194	196	173	6,367	721	401	352	287	285
Furniture of wood—												
Chairs.....												724
Office furniture.....												279
Store fixtures.....												179
School and church furniture.....												241
Other wood, willow, and wicker furniture.....												2,297
Boat oars and paddles.....	number	192,794	101,711	78,689	75,916	93,547		202	220	176	189	215
Wagon and other vehicle stock.....	1,000 doz.											246
Plow and similar bent handles.....	1,000 doz.											68
Hoe, fork, shovel, broom, and other long handles.....	1,000 doz.											889
Handles for striking tools.....	do.											1,202
Pencil slats.....	1,000 lbs.											1,838
Woodenware.....												593
Other wood manufactures.....												7,505
D Cork manufactures.....												1,747
Dishes, washers, and wafers.....	1,000 gross	10,371	4,601	5,906	5,182	3,839		903	1,492	1,547	1,613	155
Crown bottle caps.....	do.	16,918	4,371	3,792	3,812	3,649		16,814	873	801	804	745
Stoppers.....	1,000 lbs.	1,236	153	194	370	730		1,108	74	84	142	227
Other cork manufactures.....	do.	1,216	2,771	16,630	2,933	4,615		1,302	361	456	458	620
E Paper base stocks.....												6,102
Pulpwoods.....	cords	114,380	8,226	12,662	59,059	27,518		1,122	5,783	4,984	5,412	221
Wood pulp—												1,308
Sulphite wood pulp.....	tons of 2,240 lbs.	22,675	20,875	24,252	24,272	22,272		1,744	1,362	1,346	1,266	194
Soda wood pulp.....	do.	2,455	1,601	2,027	2,441	2,441			223	133	177	91
Other wood pulp.....	do.	26,097	8,794	8,078	2,298	5,183			856	606	91	27
Rags and other paper stock.....	1,000 lbs.	105,109	176,921	195,020	217,798	230,626		1,863	3,275	2,765	3,394	4,103
F Paper and manufactures.....												30,983
Printing paper—												
Newsprint paper.....	1,000 lbs.	39,352	45,476	38,516	24,657	22,780		1,987	2,025	1,849	1,191	860
Book paper, not coated.....	do.	26,883	17,348	18,085	16,045	24,511		1,348	1,935	1,722	1,371	1,700
Cover paper.....	do.	1,209	1,215	1,560	1,651	2,038		1,207	231	269	283	341
Grease proof and waterproof paper.....	do.	1,605	2,115	2,419	2,613	3,107		193	282	354	381	490
Wrapping paper.....	do.	27,928	28,736	33,015	32,312	36,767		2,170	2,173	2,224	2,256	2,587
Surface-coated paper.....	do.	1,725	3,802	5,903	5,973	11,157		1,560	582	745	708	1,137
Trassie and crepe paper.....	do.	17,966	3,742	4,400	4,801	4,985		908	908	1,050	1,062	1,006
Toilet paper.....	do.	1,274	5,044	5,272	6,448	6,448		1,281	244	648	669	685
Paper towels and napkins.....	do.	22,482	22,482	52,469	43,694	48,670		796	796	1,502	1,351	1,354
Box board.....	do.	11,340	11,333	1,527	1,845	1,978		144	130	173	221	221
Bristols and bristol board.....	do.	152,223	32,375	40,313	98,555	42,124		2,291	1,581	2,030	2,073	2,150
Other paper board and strawboard.....	do.	17,479	12,834	11,906	12,802	14,854		1,334	591	506	561	561
Sheathing and building paper.....	do.	114,907	14,097	25,476	45,909	61,601		544	475	879	1,306	2,069
Wall board of paper or pulp.....	1,000 sq. ft.	2,186	2,920	3,175	3,667	3,921		16,326	356	403	411	446
Blotting paper.....	1,000 lbs.											

18 Average for years 1924-25.

19 1925 only

7 Average for years 1910 and 1912-1914

10 Average for years 1923-1925.

1 Average for years 1922-1925.

1 Average for years 1913-14.

## No. 537.—EXPORTS OF UNITED STATES MERCHANDISE BY COMMODITY GROUPS AND ARTICLES—Continued

Group and article	Quantity					Value in thousands of dollars						
	1910-1914	1921-1925	1925	1926	1927	1928	1910-1914	1921-1925	1925	1926	1927	1928
GROUP 4.—WOOD AND PAPER—Continued												
F. F. Paper and manufactures—Continued.												
Filing folders, index cards, and other office forms.....		16,550	649	808	1,036	1,502		16,100	219	287	322	516
Paperies (fancy writing paper).....		15,926	541	705	706	732		1,719	101	106	186	196
Other writing paper.....		121,421	4,022	10,406	13,228	25,834	1,288		709	1,062	1,918	2,835
Paper hangings (wall paper).....		110,930	22,754	22,142	20,300	23,951	401		555	572	605	642
Paper bags.....		112,746	17,095	10,866	11,247	9,155	1,429		1,134	1,024	971	801
Boxes and cartons.....		12,388	2,491	2,683	2,659	28,443	506		1,301	1,435	1,628	1,901
Envelopes.....		15,382	5,579	5,354	4,285	5,524		1,502	476	434	423	406
Vulcanized fiber sheets, strips, rods, and tubes.....		1,242	413	481	524	468	590	1,525	1,664	1,500	1,264	1,455
Manufactures of vulcanized and indurated fiber.....		1,242	1,033	2,009	2,104	3,419	4,221	141	169	205	213	136
Cash register and adding machine paper.....								4,904	4,266	4,555	4,902	5,307
Other paper and paper products.....												
Total.....	18,136	20,508	19,281	35,972	19,771	18,392	203,312	592,392	632,665	811,532	654,488	687,278
GROUP 5.—NONMETALLIC MINERALS												
A. Coal and related fuels.....1,000 tons of 2,240 lbs.												
Coal—												
Anthracite.....	8,533	3,502	2,838	3,598	2,969	2,979	18,183	38,476	31,761	41,086	32,928	32,657
Bituminous.....	13,790	16,330	15,991	31,493	16,082	14,433	3,455	86,482	68,403	155,819	71,329	59,464
Coke.....	853	655	862	881	720	980	3,085	6,154	6,872	6,980	5,431	7,365
Fuel or bunker coal for vessels in foreign trade (not included in exports).....1,000 tons of 2,240 lbs.	7,019	4,908	4,344	6,307	4,076	3,854	22,678	31,588	23,398	38,025	22,077	20,253
B. Petroleum and products.....												
Petroleum, crude.....1,000 bbls. of 42 gals.	4,305	13,330	13,125	15,406	15,843	18,951	127,736	405,052	472,852	554,534	485,903	525,852
Refined oils.....	38,994	76,454	93,843	108,398	115,369	126,157	112,956	363,586	422,603	497,212	429,663	465,215
Gasoline, naphtha, and other light products.....1,000 bbls. of 42 gals.	3,508	21,100	30,638	42,480	43,334	51,751	16,735	152,051	197,492	283,200	209,839	232,297
Illuminating oil.....	25,131	20,446	21,075	22,016	19,352	21,846	64,098	85,381	84,669	100,353	79,303	54,463
Gas and fuel oil.....	5,769	26,555	32,509	34,516	42,963	41,573	6,853	41,207	49,040	46,354	49,802	45,812
Fuel or bunker oil for vessels in foreign trade (not included in exports).....1,000 bbls. of 42 gals.	36,501	42,387	46,662	46,662	50,061	51,286		55,842	68,173	71,045	72,967	59,426
Lubricating oil.....	8,332	9,385	9,256	9,256	9,606	10,817	25,270	64,439	90,597	86,415	88,843	91,576
Red and pale.....	10,494	5,454	5,475	5,475	5,984	6,945		10,214	43,192	49,368	49,368	54,463
Black.....	10,075	970	609	609	672	1,029		10,655	3,511	3,511	3,511	3,511
Cylinder.....	2,832	3,161	3,172	3,172	2,950	2,843		40,708	39,712	35,989	31,989	31,989

	10 24	25	42	63	86	10 337	309	386	550
Mineral spirits (substitute for turpentine).....				78	68			1,086	836
Insulating or transformer oils.....									1,040
Light lubricating oils in small packages.....									514
Lubricating greases.....	10 14	11	96,063	100,483	108,112	10 510	466	409	480
Paraffin wax.....	311,673	384,170	385,584	340,423	392,652	4,395	5,396	5,213	5,299
Unrefined.....	77,789	79,280	70,948	76,240	83,007	7,917	18,625	18,934	16,864
Refined.....	233,648	261,890	264,636	264,174	309,555	2,938	3,688	3,653	3,012
Petroleum asphalt.....	78,477	79,477	130,883	343,778	439,909	10,801	14,761	15,277	12,287
Petroleum coke.....			80,814	96,258	128,598	1,762	1,762	3,184	8,325
Residuums.....	131	95	160	217	268	1,202	201	887	1,984
								608	584
									225
									5,931
									5,740
									254
									119
									80
									852
									1,476
									1,006
									638
									2,797
									2,939
									211
									10,108
									8,882
									9,171
									118
									347
									681
									439
									3,515
									1,382
									1,382
									327
									388
									645
									611
									194
									207
									424
									2,257
									1,893
									8,406
									8,012
									392
									726
									896
									197
									161
									755
									604
									598
									706
									183

\* Of 376 pounds.  
\* Of 200 pounds.

10 Average for years 1922-1925.  
11 1925 only.

10 Average for years 1922-1925.  
11 "Other animal greases" includes lubricating greases for 1910-1914.

10 Average for years 1922-1925.  
11 Average for years 1913-1914.

10 Average for years 1922-1925.  
11 "Other animal greases" includes lubricating greases for 1910-1914.

10 Average for years 1922-1925.  
11 Average for years 1913-1914.









Car wheels and axles.....do.....	144,862	44,655	37,560	37,323	38,426	408	1,273	1,303
Horseshoes.....do.....	2,659	1,893	1,587	1,289	1,049	* 97	1,452	1,407
Iron and steel forgings.....do.....	15,178	4,864	5,925	10,901	26,222	515	556	532
Iron and steel, advanced manufactures.....								
Cutlery.....								
Razors, safety.....1,000 doz.....	7,471	432	355	570	1,089	7,286	13,955	9,406
Safety-razor blades.....do.....		13,782	8,949	11,017	15,002	4,774	1,417	883
Sassors and shears.....dozens.....	178,358	62,043	37,553	27,154	42,454	1,263	5,772	5,690
Table and kitchen cutlery.....1,000 doz.....	1,496	456	378	535	7150	1,283	2,274	183
Other cutlery and parts.....do.....						1,523	697	557
Other ware.....do.....							1,826	1,714
Tin and galvanized hollow ware.....1,000 lbs.....		5,300	6,284	5,529	7,144	1,696	855	740
Tin cans, finished or unfinished.....do.....	111,723	9,301	8,991	8,046	8,900	991	929	840
Enamelled ware of iron or steel.....do.....								
Bathtubs.....number.....	15,060	19,638	18,718	17,522	20,292	557	588	692
Lavatories, sinks, and other plumbing fixtures.....number.....	148,809	52,424	52,279	56,643	55,551	632	633	602
Enamelled household ware.....1,000 lbs.....	13,969	3,212		1,866	3,506	1,017	626	662
Metal furniture and fixtures.....number.....								
Filing cases.....number.....	128,684	38,083	42,813	60,508	65,855	1,006	1,538	1,706
Safes and cabinets, fire and burglar proof.....number.....								
Bank and safety deposit vaults and equipment.....number.....	8,056	7,343	8,430	14,751	18,810	436	584	626
Other office furniture and fixtures.....number.....								
Metal beds and bed springs.....number.....								
Other metal furniture.....number.....								
Stoves and furnaces, except electric.....number.....								
Cooking stoves and ranges.....do.....	20,467	13,137	14,382	13,494	13,494	335	417	365
Heating stoves and warm-air furnaces.....do.....	6,383	9,204	8,400	16,538	220	290	336	336
Gas stoves, ranges, and water heaters.....do.....	32,621	37,015	42,551	49,000	49,000	719	719	890
Kerosene cooking stoves and ranges.....do.....	102,337	220,762	98,257	190,991	190,991	826	957	957
Gasoline cooking stoves and ranges.....do.....						853	839	978
Parts of stoves and ranges.....1,000 lbs.....	4,346	5,862	3,867	4,342	2,292	928	1,197	842
House-heating boilers and radiators.....sq. ft.....						815	717	392
Oil burners and parts.....do.....								
Tools.....								
Axes (broad and hand).....1,000 doz.....	90	117	94	100	109	10,538	17,514	18,969
Wood-cutting saws.....thousands.....						1,146	1,220	1,331
Metal-cutting and other saws.....dozens.....						1,322	1,970	1,952
Axes and bits, wood-working.....do.....						1,986	1,494	1,305
Files and rasps.....1,000 doz.....	1,998	2,671	2,375	2,639	2,639	964	1,402	1,481
Hammers and hatchets.....do.....	6,079	6,761	7,727	7,727	7,727	2,575	2,912	2,894
Hand hoes and rakes.....thousands.....	1,370	457	400	278	341	1,173	211	138
Shovels and spades.....1,000 doz.....	148	47	41	36	36	497	483	538
Vices.....thousands.....	15	117	146	171	51	247	239	198
Mechanics' and other hand tools.....do.....						8,461	9,019	9,211

## No. 537.—EXPORTS OF UNITED STATES MERCHANDISE BY COMMODITY GROUPS AND ARTICLES—Continued

Group and article	Quantity						Value in thousands of dollars					
	1910-1914	1921-1925	1925	1926	1927	1928	1910-1914	1921-1925	1925	1926	1927	1928
<b>GROUP 6.—METALS AND MANUFACTURES, ETC.—</b>												
<b>D. Iron and steel, etc.—Continued.</b>												
<b>Hardware.</b>												
Pedlocks.....		369	283	222	222	187	8,474	8,485	8,902	8,825	7,920	8,501
Door locks and lock sets.....		97	73	61	61	58		2,085	760	599	524	466
Cabinet and other locks.....		208	209	168	168	165			366	376	455	488
Hinges and bolts.....			1,028	615	615	571		1,914	820	703	840	352
Other builders' hardware.....								1,801	1,085	1,334	567	521
Furniture hardware.....								1,355	383	409	377	1,619
Saddlery and harness hardware.....								1,332	354	205	215	204
Car and marine hardware.....								1,212	280	234	222	224
Other hardware.....								1,013	3,472	3,762	3,543	4,280
Needles, hand and machine..... thousands.....		1 64,808	70,728	76,017	57,128	71,715		544	837	712	687	840
Sprocket and other power transmission chains.....			3,193	4,597	6,159	6,285		2,256	738	1,085	1,226	1,966
Other chains.....		1 12,977	12,996	12,847	9,248	8,719			1,792	1,681	1,287	1,112
Automatic scales..... number.....		1 112,934	124,185	14,502	18,628	13,680		2,049	2,442	931	1,108	1,072
Other scales and balances.....				105,086	107,511	135,034	1,087			1,187	1,217	1,307
Wood screws.....		7,995	7,570	8,272	7,225	7,989		1,196	911	962	814	813
Other iron and steel manufactures.....							20,929	19,255	17,495	19,537	18,204	19,915
<b>E. Ferro-alloys.</b>							285	489	668	618	1,076	861
Ferromanganese and spiegel Eisen..... tons of 2,240 lbs.....		3,008	5,406	693	1,641	9,440		118	161	44	62	283
Ferrotungsten, tungsten metal, and wire..... pounds.....		1 6,050	18,238	20,880	20,143	16,641		1,106	144	159	165	123
Other ferro-alloying ores and metals.....		10 4,848	5,578	6,052	7,286	5,856	9 356	236	363	618	849	505
<b>F. Nonferrous metals, except precious.</b>							141,064	173,483	235,380	200,555	216,134	227,377
<b>Aluminum.</b>							1,441	6,538	10,181	9,194	14,108	12,103
Bauxite and other aluminum ores and concentrates..... tons of 2,240 lbs.....	9 10,661	51,969	78,603	87,770	124,858	112,984	9 479	2,589	4,134	4,741	7,800	5,211
Ingot, scrap, and alloys.....		3,049	8,120	8,567	8,525	2,390		674	1,835	1,138	742	444
Plates, sheets, bars, strips, and rods.....		3,165	4,512	7,047	10,997	13,338		1,015	1,581	1,997	2,737	3,315
Tubes, moldings, castings, and other shapes.....		1 1,979	3,472	2,115	1,580	1,004		1,644	1,196	672	500	398
Table, kitchen, and hospital utensils.....								1 647	629	531	965	643
Other aluminum manufactures.....							1,088	1,227	866	1,115	1,764	2,091

Copper	1,000 lbs. <sup>1</sup>	\$27,903	876,876	11,080,751	965,085	1,076,739	1,133,019	121,179	139,700	161,105	141,204	150,214	160,831
Ores, concentrates, composition metal, and unrefined copper (copper content)	do		686	1,330	5,465	7,236	3,883	2,348	95	233	612	785	508
Refined copper in ingots, bars, or other forms	1,000 lbs.	\$802,472	791,171	968,035	856,125	922,466	949,474	\$124,402	111,475	140,221	121,251	125,378	140,240
Old and scrap copper	do		4,352	12,105	10,426	45,418	55,467		601	1,566	2,178	5,128	6,004
Pipes and tubes	do		2,424	2,784	3,253	3,139	3,554	\$10,360	639	2,331	840	777	910
Pipes and sheets	do	\$66,453	7,074	12,205	5,032	7,074	6,039		1,475	2,831	1,075	1,321	1,275
Rods	do		48,908	54,270	44,700	58,617	71,325	\$6,268	1,263	8,098	6,807	8,870	11,068
Wire	do	\$36,982	10,852	11,665	13,041	10,289	15,676		1,952	2,444	2,244	1,989	2,624
Insulated copper wire and cable	do		13,386	17,317	18,453	22,490	19,651	\$1,992	4,498	4,900	4,816	5,166	4,817
Other copper manufactures	do							\$552	1,753	1,035	1,350	1,069	1,297
Brass and bronze													
Ingots, scrap, and old <sup>1</sup>	1,000 lbs.	\$27,704	32,074	96,378	50,265	91,994	84,826	7,099	11,084	18,165	13,674	17,518	17,619
Bars and rods <sup>2</sup>	do		7,017	7,017	3,291	2,618	1,985	\$2,841	3,472	9,889	4,044	8,824	7,047
Plates and sheets <sup>3</sup>	do	\$6,121	4,501	7,898	3,291	2,618	2,409	\$917	836	1,121	553	410	395
Pipes and tubes	do		12,572	2,823	3,557	3,433	4,261		700	280	332	238	511
Pipe fittings and valves	do		12,092	3,706	3,435	3,278	4,042		1,661	2,037	922	788	1,075
Hardware of brass or bronze	do										1,828	1,807	2,070
Plumbers' brass goods	1,000 lbs.			480		713	909		1369	601	815	764	671
Wire of brass or bronze	do		1,064	1,132	1,267	1,166	1,367			400	232	384	541
Brass wood screws	do					623	1,599				407	380	436
Other brass and bronze manufactures	1,000 gross											138	157
Lead	1,000 lbs.		126,998	920,774	167,945	252,864	244,472	1,007	8,884	17,604	12,710	13,742	11,856
In pigs, bars, etc.	do		117,900	205,705	142,481	242,953	239,564		7,368	15,598	9,412	12,424	10,210
From domestic ore	do		7,893	9,011	8,552	5,066	28,403		508	784	601	309	1,269
From foreign ore	do		109,407	195,794	133,229	237,917	201,161		6,860	14,814	8,811	12,115	8,911
Other lead manufactures	do		112,122	16,069	23,454	9,881	14,907	1,007	1,517	2,006	3,267	1,318	1,646
Nickel—													
Nickel, monal metal, and alloys	do	23,188	3,203	2,569	1,690	2,108	2,349		604	835	429	601	880
Manufactures	do								203	361	575	788	1,161
Tin—													
Bars, blocks, or pigs	1,000 lbs.		1,508	809	1,511	2,262	781		574	446	708	889	326
Manufactures	do		10,676	4,512	5,337	6,593			10,599	1,359	1,626	1,909	1,514
Zinc													
Ore and concentrates <sup>4</sup>	tons of 2,240 lbs.		61,563	61,563	85,045	41,711	4,064	1,582	8,119	13,026	13,146	9,456	4,785
Dross <sup>5</sup>	do		20,870	31,536	8,902	6,237	179	684	3,277	3,277	4,066	1,691	206
Cast in slabs, plates, blocks, or pigs	1,000 lbs.		62,386	182,703	85,660	91,270	50,513	641	6,349	11,554	1,101	296	241
Rolled in sheets, strips, etc.	do		10,567	10,567	7,545	7,545	6,630		6,849	11,654	6,358	6,008	8,008
	do		5,647	5,583	5,231				695	927	1,087	907	

<sup>1</sup> 1914 only. Included in "electrical appliances for earthen years."<sup>2</sup> Prior to 1925 data are "scrap and old fit only for manufacture."<sup>3</sup> Prior to 1925 data are "ingots, plates, sheets, bars, and rods."<sup>4</sup> For years 1922-1924 data included for "gross" are "ores, concentrates, and dross."<sup>5</sup> Average for years 1922-1925. <sup>6</sup> Average for years 1923-1925.<sup>7</sup> Average for years 1913-14. <sup>8</sup> 1925 only.<sup>9</sup> Average for years 1912-1914. <sup>10</sup> Not including pounds of "other copper manufactures."<sup>11</sup> Average for years 1911-1914. <sup>12</sup> The estimated quantity of copper content of ore is included.

## No. 537.—EXPORTS OF UNITED STATES MERCHANDISE BY COMMODITY GROUPS AND ARTICLES—Continued

Group and article	Quantity					Value in thousands of dollars						
	1910-1914	1921-1925	1926	1927	1928	1910-1914	1921-1925	1926	1927	1928	1929	1930
<b>F. Nonferrous metals, except precious—Continued.</b>												
<b>Zinc—Continued</b>												
Dust.....	15,094	4,484	2,181	2,713	2,016	1,389	408	225	259	199		
Other zinc manufactures.....	1,926	1,462	2,593	2,667	2,026	207	192	319	312	234		
Nickel silver, or German silver in bars, rods, or sheets.....	1,407	468	1,539	1,424	1,405	187	136	336	319	364		
Rabbit metal.....	1,239	2,218	1,337	1,654	1,692	342	673	465	598	564		
Other metal and alloys.....	1,388	2,454	2,104	2,923	6,805	1,560	1,249	859	1,095	1,547		
Plated ware, other than gold or silver.....	885	727	620	687	769	888	1,053	1,031	1,026	893		
Type.....	684					337	344	377	381	443		
Other metal and metal composition manufactures.....						3,490	3,323	4,223	3,401	3,482		
<b>G. Precious metals, jewelry, and plated ware, except gold and silver in ore, bullion, and coin.</b>												
<b>Platinum—</b>												
Ingots, sheets, wire, alloys, and scrap.....	845	5,563	11,573	19,923	9,050	34	589	1,787	1,578	619		
Manufactures, except jewelry.....		1,481	1,898	1,549	2,168	85	115	250	129	161		
Jewelry.....		3,537				1,245	827	975	1,177	1,634		
Gold and silver ware, except cutlery and jewelry.....												
Silver plated—												
Tableware.....						963	946	296	237	288		
Other articles.....								216	183	193		
Gold-plated articles.....								434	490	487		
Gold manufactures, n e s.....								914	1,550	1,477		
Silver manufactures, n e s.....						443	662	201	357	224		
<b>GROUP 7.—MACHINERY AND VEHICLES</b>												
Total.....						200,463	531,382	755,984	857,018	1,035,544		
<b>A. Electrical machinery and apparatus</b>												
<b>Generators—</b>												
Direct current—												
Under 500 kilowatts.....		4,425	4,062	2,754	3,593		69,266	73,963	84,404	88,957		
500 kilowatts and over.....		35	54	66	159			428	465	624		
Alternating current—												
Under 2,000 kilowatt-amperes.....		18,462	293	271	279	2,704	4,149	303	188	227		
2,000 kilowatt-amperes and over.....		70	30	34	20		1,901	1,273	1,068	394		
Steam turbine generator sets.....		16,444	796	1,179	1,124		16,486	1,796	1,412	1,822		

Accessories and parts for generators— Self-contained lighting outfits— number	1,276	3,866	4,411	5,153	4,015	1,130	1,089	920	1,137	1,094
Batteries—										
Flashlight batteries— thousands		10,156	16,108	23,438	34,440		1,089	1,151	1,137	1,094
Other primary batteries— do	18,600	4,093	6,101	6,471	7,972		1,076	1,244	1,940	1,116
Storage batteries— do		207	282	302	338	3,940	1,214	1,674	2,250	2,941
Transforming or converting apparatus— Power transformers, 500 kilovolt amperes and over— number		3,165	2,415	3,321	2,327		2,175	2,231	1,556	1,107
Distribution transformers, less than 500 kilovolt-amperes— number	158,556				5,297	5,199				829
Instrument transformers— do		55,098	42,411	43,154	1,023		1,315	1,266	1,051	91
Other transformers— do					52,532					898
Battery chargers under 15 amperes— do					60,356					289
Rectifiers, double current and motor gen- erators, dynamotors, synchronous, and other converters— number	150,865	59,625	65,486	94,482	14,799	1,122	967	1,557	1,729	1,129
Transmission and distribution apparatus— Switchboard panels, except telephone number		4,404	4,280	3,813	4,343		2,305	2,193	1,628	1,619
Switches and circuit breakers over 10 am- peres— thousands	15,538	201	341	390	388	4,246	2,424	2,618	1,987	1,758
Fuses and fuse blocks— do	12,914	3,457	4,035	3,994	5,366	1,284	343	352	370	438
Watt-hour and other measuring meters— number		45,373	47,393	45,360	102,474		447	493	419	994
Volt, watt, and ampere meters, and other recording, indicating, and testing appa- ratus— number	1185,927	205,702	240,222	249,784	58,605	1,969	1,696	2,152	2,139	453
Electrical indicating instruments— do					6,151					216
Electrical recording instruments— do										873
Other electrical testing apparatus— Lightning arresters, choke coils, reactors, and other protective devices— number	180,045	101,201	82,126	87,821	78,867	1,730	707	709	726	782
Motors, starters, and controllers— Motors $\frac{1}{2}$ horsepower and under— do		92,153	95,028	114,036	113,507		2,102	2,000	2,614	2,122
Motors $\frac{1}{2}$ horsepower and under 1 horsepower number					25,551					835
Stationary motors— do	1101,750	13,833	22,084	22,817	19,859	7,531	2,472	3,207	3,068	2,872
1 to 200 horsepower— do		211	263	132	158		604	402	387	402
Over 200 horsepower— do		790	1,282	922	513		807	1,127	915	598
Railway motors— do										
Electric locomotives— do		22	34	18	107		482	1,841	690	1,088
Railway— do		79	144	124	78		331	759	631	471
Mining and industrial— do	35									
Other motors— do										
Station and warehouse electric motor trucks— number	223	248	175	240	202	162	194	178	196	178

\* 1914 only.

\* Average for years 1912-1914.

\* Average for years 1912-25.

\* Average for years 1922-1925.

\* Average for years 1913-14.

No. 537.—EXPORTS OF UNITED STATES MERCHANDISE BY COMMODITY GROUPS AND ARTICLES—Continued

[illegible]



## No. 587.—EXPORTS OF UNITED STATES MERCHANDISE BY COMMODITY GROUPS AND ARTICLES—Continued

Group and article	Quantity					Value in thousands of dollars				
	1910-1914	1921-1925	1926	1927	1928	1910-1914	1921-1925	1926	1927	1928
<b>GROUP 7. MACHINERY AND VEHICLES—Contd.</b>										
<b>B. Industrial machinery—Continued.</b>										
Construction and conveying machinery—Con										
Dredging machinery.....1,000 lbs.	13,700	5,260	9,622	3,464	5,097		1,588	1,225	550	821
Concrete mixers.....number	1,861	1,163	1,211	2,007	1,932		629	737	1,131	1,106
Road rollers.....do.		137	217	142	184			398	380	499
Road grading and maintaining equipment							980			614
Other road-making equipment.....1,000 lbs.		7,064	9,065	12,332	3,779			1,291	1,839	1,688
Other construction equipment.....do.		2,951	6,821	6,016	8,926		1,888	874	885	1,277
Cranes with swinging booms.....number		92	79	91	102		629	770	928	1,043
Other cranes.....do.	1,223	211	193	249	372		1,088	815	710	1,443
Monorail hoists.....do.					177					25
Other hoists.....do.	14,704	6,052	7,209	6,810	8,138		1,886	1,237	1,156	1,295
Derricks, except mining.....do.					195					439
Elevators, freight and passenger.....do.		310	468	552	709		761	938	1,072	1,220
Conveyors, bucket, chain, or belt.....do.		1,208	1,245	1,575	1,692	1,521	2,969	434	428	632
Other conveying equipment.....1,000 lbs.			19,232	17,445	13,700			3,803	3,375	2,955
<b>Mining, oil-well, and pumping machinery</b>										
Mining and quarrying machinery—										
Coal cutters.....number	16,78	72	181	193	104	11,467	24,793	39,330	39,581	39,962
Rock drills.....do.	16,108	7,448	8,527	10,565	11,375		16,206	635	645	440
Mine hoists and derricks.....do.	1,228	280	294	713	1,006		1,065	1,506	1,585	2,023
One crushing and sorting.....1,000 lbs.	14,582	18,795	30,063	22,551	20,613		1,248	284	468	780
Concentrating and smelting.....do.	2,831	3,103	6,563	4,100	2,812		1,798	4,043	3,110	3,131
Other mining and quarrying.....do.	117,790	18,285	22,073	14,864	17,701		1,442	1,164	791	586
<b>Oil-well and oil-refinery machinery</b>										
Well-drilling apparatus.....do.							6,038	7,211	6,290	7,067
Other oil-well and oil-refinery.....do.										
Pumping equipment—										
Centrifugal pumps.....number		2,235	2,660	3,717	5,794		7,762	8,292	8,477	8,118
Steam pumps.....do.		6,646	6,328	6,211	6,549			7,014	8,365	8,074
Other reciprocating power pumps.....do.		19,245	20,245	23,128	18,893					
Hand and windmill pumps.....do.		87,306	96,235	103,755	107,289					
Other pumps and parts of pumps.....do.										
<b>Power-driven metal-working machinery</b>										
Engine lathes.....number			288	716	797			14,316	20,391	27,492
Turret lathes.....do.			156	279	434			635	1,563	1,600
Other lathes.....do.	1,069	1,542	622	444	840		1,726	326	846	1,110
								759	913	1,721



Vertical boring mills and chucking machinery.....	number	87	136	113				191	345	290
Thread-cutting and automatic screw machines.....	number	827	895	822		1,630	1,193	727	963	1,152
Knee and column type milling machines.....	number	209	241	321		1,778	1,631	454	472	811
Other milling machines.....	do.	373	486	680				505	1,061	1,469
Gear-cutting machines.....	do.	199	401	404		1,900	816	444	965	1,095
Vertical drilling machines.....	do.	319	343	517				252	332	493
Radial drilling machines.....	do.	71	95	132				319	215	311
Other drilling machines.....	do.	1,912	1,877	1,241				319	388	694
Planers and shapers.....	do.	572	403	398		1,854	564	314	662	762
External cylindrical grinding machines.....	number	505	711	945		1,814	1,814	799	1,648	2,173
Internal grinding machines.....	do.	240	467	462			645	478	1,100	921
Metal-working tool-sharpening machines.....	number	880	679	727		1,588		322	388	508
Other metal-grinding machines.....	1,000 lbs.	746	1,421	1,686			617	364	702	798
Sheet and plate metal-working machines.....	1,000 lbs.	6,537	7,013	12,699				1,299	1,400	2,773
Forging machinery.....	do.	5,996	6,138	5,138				1,039	1,109	955
Rolling-mill machinery.....	do.	6,090	7,677	8,739				402	542	634
Foundry and molding equipment.....	do.	6,865	6,900	18,619		1,515	689	891	1,061	1,351
Other power-driven metal-working machinery and parts.....	do.	12,876	3,850	15,015		46,837	7,247	3,544	3,687	5,751
Other metal-working machinery.....	number	17,743	20,092	21,824		1,127	4,238	4,550	4,989	6,703
Pneumatic portable tools.....	number	16,173				1,813	1,558	1,278	1,575	1,704
Other portable and hand or foot operated metal-working machines and parts.....	number	605	611	1,007				603	651	1,017
Chucks for machine tools.....	1,000 lbs.	17,615	15,640	19,324		1,295	333	230	220	244
Drills and reamers.....	number	23,589				1,201,8	2,747	2,439	639	659
Taps, dies, screw plates, and pipe stocks.....	do.								902	1,798
Cutters and other metal-working tools.....	do.								1,001	1,231
Textile, sewing, and shoe machinery.....	number					12,253	23,492	21,838	23,863	24,817
Textile machinery.....	do.					1,790	11,469	10,400	11,466	12,856
Circular hosiery knitting machines.....	number	7,962	8,331	8,953				2,803	3,448	3,751
Other circular knitting machines.....	do.	1,279	1,946	1,839				634	840	784
Other knitting machines and parts.....	do.	960	1,306	1,996		1,3,211	4,707	1,025	1,206	1,429
Cotton spinning and twisting machines.....	1,000 lbs.	3,348	2,276	2,215				543	523	454
Cotton looms.....	1,000 lbs.	3,829	2,753	4,226		10,456	441	693	518	693
Other cotton machinery.....	do.	5,282	2,418	2,118		511	901	698	518	544
	do.	5,282	2,418	2,118		10,041	1,096	837	529	544

10 Average for years 1924-25

11 1925 only

12 All metal-working machinery is included prior to 1922.

13 Average for years 1922-1925

14 Average for years 1913-14

15 Average for years 1923-1925.

## No. 537.—EXPORTS OF UNITED STATES MERCHANDISE BY COMMODITY GROUPS AND ARTICLES—Continued

Group and article	Quantity						Value in thousands of dollars					
	1910-1914	1921-1925	1925	1926	1927	1928	1910-1914	1921-1925	1925	1926	1927	1928
<b>GROUP 7.—MACHINERY AND VEHICLES—Contd</b>												
<b>B. Industrial machinery—Continued</b>												
Textile, sewing, and shoe machinery—Con.												
Textile machinery—Continued.												
Wool carding and weaving machinery		1 944	1 014	892	1 017	1 060		1 267	524	286	268	942
do.		1 792	396	328	1 004	1 764		1 254	152	162	354	569
Silk machinery												
do.												
Other textile and textile finishing machinery		18 408	9 583	9 489	12 023	13 926		13 244	3 778	3 413	3 780	4 280
do.												
Sewing machines—												
For domestic use.		1 246,151	213,608	214,947	171,860	168,837		8 210	5 228	5 560	4 595	4 856
For factory or industrial use.			43 928	42 483	65 625	62 123	9 914		3 415	3 123	4 369	4 280
Sewing-machine parts.								1 861	1 890	1 492	1 715	1 615
Shoe machinery, except sewing.		1 1 641	1 754	1 943	2 379	2 505	1 623	1 404	1 370	1 353	1 718	1 740
do.												
Other industrial machinery.							30 610	61 870	58 344	55 010	69 041	81 948
Cigarette, cigar-making, and other tobacco machinery												
Bakery machinery and parts												
Flour-mill and grismil.		1 5 084	4 551	4 275	3 113	2 447	1 1 348	1 135	889	863	487	1 208
Flour-mill machinery		1 717	725	1 008	816	785		1 187	219	247	227	1 070
Sugar-mill machinery—												
Cane mills.			4 089	3 634	3 338	3 188			391	365	390	638
Other sugar-mill machinery.			56 767	24 497	38 975	27 502		8 405	7 879	3 677	5 433	4 063
Paper and pulp-mill machinery.		1 9 338	7 364	18 921	20 100	14 061	2 929	2 134	1 717	3 846	3 823	3 067
Sawmill machinery.		1 3 338	4 008	3 977	4 517	4 776	8 819	740	823	960	800	921
Planers, matchers, jointers, and molders												
Other woodworking machinery.		188	188	275	242	209		198	198	267	275	222
Blowers and ventilating machinery.		10 2 074	3 162	3 162	4 065	5 361	1 480	1 571	1 425	1 200	1 485	2 062
Brewers' machinery.		13 495	2 189	3 509	3 281	4 067	10 514	573	573	886	847	1 283
Ice-making equipment.			4 669	4 558	4 498	4 935	3 372	638	968	946	1 022	1 283
Refrigerating equipment.			4 779	4 233	4 173	4 188			832	747	761	820
Refrigerating sets up to 1 ton capacity												
Over 1 and up to 10 tons refrigerating capacity.							824	2 150			3 685	6 469
Over 10 tons refrigerating capacity.			3 870	10 238	7 418	5 171			1 206	3 620	215	1 380
Oil-mill machinery.		1 1 768	3 549	4 428	6 286	3 594		1 323	631	394	983	775
Cotton gins, and parts.		1 2 929	4 942	3 307	1 367	2 572		506	998	692	568	573

Ball and roller bearings, and parts.....do.....	1 2,464	1,836	2,235	2,809	4,176	1,485	1,270	1,601	1,805	2,326
Air compressors—										
Capacity up to 25 cubic feet.....number.....	1 5,790	4,797	7,869	12,669	12,887	3,120	644	1,098	1,354	1,201
Capacity over 25 cubic feet.....do.....		2,780	2,744	3,920	4,064		3,243	3,567	4,519	5,536
Meat and other grinding and slicing machines.....number.....				92,032	14,983				942	1,118
Paint-spraying equipment.....do.....										563
Laundry machinery—										
Domestic washing machines.....number.....		10,000	14,726	19,579	27,173	1,093	600	954	1,344	1,823
Power laundry machines.....do.....		2,880	2,274	1,950	2,848		999	1,210	1,274	1,274
Other laundry equipment.....1,000 lbs.....		3,014	3,427	4,528	6,340		783	1,003	1,456	2,040
Gas meters.....number.....	1 34,062	21,234	23,769	23,769	26,337	590	243	273	1,102	320
Water meters.....do.....		15,626	24,841	30,445	27,984		344	404	534	477
Iron or steel body valves for steam, water, oil, and gas.....number.....					195					2,470
Other parts, n. e. s.....1,000 lbs.....		84,257	78,341	97,980	124,104	23,395	31,023	24,952	31,439	35,311
C. Office appliances.										48,469
Accounting and calculating machines—										
Billing and bookkeeping machines.....number.....						15,024	23,466	36,311	44,094	
Listing-adding-bookkeeping.....do.....										
Typewriter-bookkeeping-billing.....do.....			8,484	11,483	12,325			3,357	5,078	6,235
Nonlisting-adding machines.....do.....				4,808	7,308				2,203	3,884
Listing-adding machines.....do.....				6,676	8,017				2,875	2,852
Calculating machines.....do.....				1,371	2,273				3,110	191
Card punching, sorting, and tabulating machines.....do.....	20,633	38,257	20,080	33,754	38,063	9 1,174	8,226	2,195	3,130	3,786
Other, including used and rebuilt.....number.....			11,983	11,237	13,814			1,730	1,767	2,335
Duplicating machines, parts and supplies for cash registers.....number.....				1,500	1,356			1,144	1,116	1,119
Parts of cash registers.....do.....				2,570	5,346			275	273	282
Parts of cash registers.....number.....	39,555	24,664	27,644	35,498	38,264			431	594	569
Typewriters.....number.....								5,130	6,794	7,475
Standard typewriters, new.....do.....	1 254,463	319,324	328,852	378,108	390,539			5,522	6,622	673
Portable typewriters, new.....do.....	2 203,407	203,407	202,122	216,338	212,939					
Used and rebuilt typewriters.....do.....	3 85,602	85,602	98,456	123,983	132,291					
Typewriter parts.....do.....	4 27,315	28,315	28,274	37,817	45,289					
Other office appliances.....do.....										
D. Printing machinery										
Typesetting machines.....number.....	1 1,249	1,237	1,279	1,312	1,446					
Printing presses.....do.....	2 2,724	2,208	2,518	2,972	2,931					
Other printing machinery and accessories.....do.....										

1925 only.

1 Up to 10 tons refrigerating capacity prior to Jan. 1, 1927.

9 Average for years 1911-1914.

10 Average for years 1923-1925.

11 Average for years 1924-25.

1 Average for years 1922-1925.

2 Average for years 1913-14.

3 Average for years 1912-1914.

## No. 537.—EXPORTS OF UNITED STATES MERCHANDISE BY COMMODITY GROUPS AND ARTICLES—Continued

Group and article	Quantity					Value in thousands of dollars				
	1910-1914	1921-1925	1925	1926	1927	1928	1927	1928	1927	1928
<b>GROUP 7.—MACHINERY AND VEHICLES—Contd.</b>										
<b>E. Agricultural machinery and implements.</b>										
Cream separators..... number	1 0,923	8,551	11,252	14,943	8,227	12,867	40,468	51,913	77,364	116,651
Other dairy machinery and parts..... number							2 410	406	553	797
Incubators and brooders..... number		1 11,216	14,703	21,699	28,956	31,099	1 180	1 902	1,289	1,504
Other poultry equipment, n e s.....								237	367	735
Implements of cultivation—										187
Horse and power plows..... do		1 242,067	240,893	179,262	164,296	183,021		6,162	7,636	6,006
Harrow..... do			33,052	27,617	29,354	31,371	7,003	1,561	1,542	1,811
Cultivators, horse and power..... do			70,315	59,635	55,173	55,494		1,190	1,120	1,818
Planters, horse and power..... do			13,742	11,359	3,451	5,860		1,642	1,551	960
Drills and seeders, horse and power..... do		1 18,568	18,355	16,287	20,237	15,891	1 262	1,141	1,811	1,574
Sprayers and dusters..... do		2 36,233	36,233	57,469	55,983	85,269		28 255	236	456
Other cultivating implements and parts.....								1 3,241	4,316	4,702
Harvesting machinery—										
Mowers, except lawn..... number		1 68,724	36,603	19,319	14,362	14,120	4 16,708	2,813	2,367	835
Lawn mowers, hand and power..... do			102,538	119,831	85,818	117,950	2 377	48 643	746	727
Hayrakes and tedders..... do		1 10,388	18,912	7,718	5,611	10,820	2 578	389	691	363
Grain harvesters and binders..... do		1 29,553	31,423	45,258	27,280	22,577		1 4,738	5,339	4,472
Combines (reapers, threshers)..... do		25 1,720	1,720	4,444	4,705	7,317		23 1,028	1,028	10,449
Other harvesting implements and parts.....								1 3,292	3,955	4,053
Seed separators—										
Threshers..... number		1 5,175	4,229	5,690	4,717	6,046	8 8,869	4 785	3,503	5,723
Corn shellers..... do		1 10,626	14,423	15,160	14,557	21,272		1 212	2,278	2,307
Other separators and parts.....								1 1,168	1,262	2,024
Feed cutters, grinders, and crushers..... number		1 2,910	3,504	4,861	8,394	8,905		1 165	230	393
Wheel tractors..... do			44,969	49,964	56,562	53,993			26,142	44,560
Track-laying tractors..... do	2 097	22,985	977	1,258	1,713	3,103	3,978	14,312	1,838	6,047
Tractor-laying tractors..... do										1,162
Engines for tractors..... do			1,450	2,251	1,263	642			613	213
Parts and accessories for tractors.....										
Windmills..... number		1 11,558	17,086	17,807	21,696	25,151		2 559	4,615	9,612
Towers and parts of windmills, except pumps.....								1 105	1,491	1,443
Rice presses, hand and power..... number		1 1,022	1,287	881	769	1,205		1 528	697	1,584
Other agricultural machinery, implements, and parts.....								1 262	317	350
F. Automobiles and other vehicles.....							7,439	5,831	2,682	3,371
Automobiles, parts, and accessories.....							42,240	210,897	352,268	535,260
							24,142	177,164	318,386	500,177

	1 202	128	108	114	138	1 280	195	156	207	178
Electric trucks and passenger cars, number.....										
Motor trucks and busses, and chassis, except electric.....number.....	25,932	58,625	66,880	105,447	138,768	18,165	37,704	47,176	70,123	91,361
Up to 1 ton.....do.....	128,732	46,402	52,184	85,674	104,666	17,610	19,441	24,084	40,777	51,344
Over 1 to 2½ tons.....do.....	1,6,872	10,423	12,411	17,517	30,998	1,910	3,044	16,025	22,586	32,201
Over 2½ tons.....do.....	1,1,246	1,689	2,232	2,266	3,106	1,341	5,249	7,067	6,661	7,816
Passenger cars and chassis, except electric.....number.....										
Factory list prices—										
Low price range, up to \$1,000 <sup>4</sup> .....do.....	124,092	244,305	238,540	278,748	368,329	94,339	184,886	176,432	207,966	263,575
Medium price range over \$1,000 up to \$2,000 <sup>4</sup> .....do.....	196,682	160,678	165,293	153,484	280,440	147,274	80,089	84,209	73,671	149,986
Over \$2,000.....do.....	147,300	78,413	67,493	115,882	76,335	152,968	90,578	76,598	111,726	85,732
Parts of, except tires—	13,396	3,215	5,754	9,382	11,554	19,473	14,219	15,625	22,570	27,857
Automobile engines—										
For motor trucks and busses.....do.....	54,420	41,571	4,265	5,422	16,244	6,355	3,550	586	678	1,651
For passenger cars.....do.....	87,379	104,277	114,228	91,681	108,061	42,487	11,940	38,835	10,208	11,375
Automobile parts for assembly.....do.....							26,213	36,075	50,177	60,334
Automobile parts for replacement, n. e. s.....do.....						58,081	8,611	9,279	7,874	9,281
Automobile accessories.....do.....										1,254
Automobile shock absorbers.....number.....					500,551					1,344
Automobile bumpers.....do.....					67,891					7,683
Other accessories, n. e. s.....do.....										7,365
Automobile service appliances, n. e. s.....do.....										1,135
Automobile tire-service equipment.....do.....										3,972
Pumps for gasoline and oil.....number.....					97,706					2,288
Other service appliances.....do.....							10,317	5,433	6,998	
Automotive fire engines.....number.....	10,95	115	41	47	54					123
Trailers.....do.....	1,654	623	1,002	928	854		10,160	136	123	224
Airplanes, seaplanes, and other aircraft.....do.....	54	80	50	63	162		1,264	282	347	396
Engines for aircraft.....do.....	1,112	73	297	84	179		511	303	849	1,760
Parts of aircraft, except tires.....do.....							1,132	171	574	665
Cycles—							150	102	570	1,240
Bicycles.....number.....	14,591	7,710	5,344	4,832	5,089		210	151	129	134
Motor cycles.....do.....	17,769	22,845	22,670	19,469	18,934		5,080	4,916	4,374	4,403
Parts and accessories, except tires.....do.....							1,687	1,707	1,312	1,472
Motor boats with engines installed.....number.....							422	562	510	755
Internal-combustion marine engines, except Diesel.....do.....	549	174	212	266	455					
Detachable motors (outboard).....number.....							377	576	807	1,464
Other.....do.....	5,038	3,611	5,165	6,541	10,479	1,109	1,029	1,145	1,249	1,613
Railway cars—										
Passenger cars—										
Electric railway.....do.....	1,187	56	80	91	94		518	674	632	1,026
Steam railway.....do.....	143	183	249	216	275		696	1,324	1,605	2,480
Freight cars.....do.....	6,664	6,171	4,403	2,723	3,683		7,163	3,904	2,539	3,938

1 Average for years 1922-1925.

2 Average for years 1919-1924.

3 Up to \$300 and \$300 up to \$2,000, respectively, prior to Jan. 1, 1928.

4 Average for years 1912-1914.

5 Average for years 1922-1925.

6 Data prior to 1922 are "cars for railways other than steam."

7 1925 only.

8 Average for years 1922-1925.

9 Data prior to 1922 are "cars for railways other than steam."

	1 202	128	108	114	138	1 280	195	156	207	178
Electric trucks and passenger cars, number.....										
Motor trucks and busses, and chassis, except electric.....	25,932	58,625	66,880	105,447	138,768	18,165	37,704	47,176	70,123	91,361
Up to 1 ton.....	128,732	46,402	52,184	85,674	104,666	17,610	19,441	24,084	40,777	51,344
Over 1 to 2½ tons.....	1,6,872	10,423	12,411	17,517	30,998	1,710	3,044	16,025	22,586	32,201
Over 2½ tons.....	1,1,246	1,689	2,232	2,266	3,106	1,341	5,249	7,067	6,661	7,816
Passenger cars and chassis, except electric.....										
Factory list prices—										
Low price range, up to \$1,000 <sup>4</sup> .....	124,092	244,305	238,540	278,748	368,329	94,339	184,886	176,432	207,966	263,575
Medium price range over \$1,000 up to \$2,000 <sup>4</sup> .....	196,682	160,678	165,293	153,484	280,440	147,274	80,089	84,209	73,671	149,986
Over \$2,000.....	147,300	78,413	67,493	115,882	76,335	152,968	90,578	76,598	111,726	85,732
Parts of, except tires—	13,396	3,215	5,754	9,382	11,554	19,473	14,219	15,625	22,570	27,857
Automobile engines—										
For motor trucks and busses.....	54,420	41,571	4,265	5,422	16,244	6,355	3,550	586	678	1,651
For passenger cars.....	87,379	104,277	114,228	91,681	108,061	42,487	11,940	38,835	10,208	11,375
Automobile parts for assembly.....							26,213	36,075	50,177	60,334
Automobile parts for replacement, n. e. s.....						4,032	8,611	9,279	7,874	9,281
Automobile accessories.....										1,254
Automobile shock absorbers.....					500,551					1,344
Automobile bumpers.....					67,891					7,683
Other accessories, n. e. s.....										7,365
Automobile service appliances, n. e. s.....										1,135
Automobile tire-service equipment.....										3,972
Pumps for gasoline and oil.....					97,706					2,288
Other service appliances.....							10,317	5,433	6,998	
Automotive fire engines.....	10,95	115	41	47	54					
Trailers.....	1,654	623	1,002	928	854		10,160	136	123	224
Airplanes, seaplanes, and other aircraft.....	54	80	50	63	162		1,264	282	347	396
Engines for aircraft.....	1,112	73	297	84	179		511	303	849	1,760
Parts of aircraft, except tires.....							1,132	171	574	665
Cycles—							150	102	570	1,240
Bicycles.....	14,591	7,710	5,344	4,832	5,089		210	151	129	134
Motor cycles.....	17,769	22,845	22,670	19,469	18,934		5,080	4,916	4,374	4,403
Parts and accessories, except tires.....							1,687	1,707	1,312	1,472
Motor boats with engines installed.....							422	562	510	755
Internal-combustion marine engines, except Diesel.....	549	174	212	266	455					
Detachable motors (outboard).....										
Other.....	5,038	3,611	5,165	6,541	10,479		377	576	807	1,464
Railway cars—							1,109	1,145	1,249	1,613
Passenger cars—										
Electric railway.....	1,187	56	80	91	94		41,584	674	632	1,026
Steam railway.....	143	183	249	216	275		1,347	1,324	1,605	2,480
Freight cars.....	6,664	6,171	4,403	2,723	3,683		8,276	3,904	2,539	3,938

1 Average for years 1922-1925.

2 Average for years 1912-1914.

3 Up to \$300 and \$300 up to \$2,000, respectively, prior to Jan. 1, 1928.

4 Data prior to 1922 are "cars for railways other than steam."

5 Average for years 1922-1925.

6 Data prior to 1922 are "cars for railways other than steam."

1925 only.



## No. 537.—EXPORTS OF UNITED STATES MERCHANDISE BY COMMODITY GROUPS AND ARTICLES—Continued

Group and article	Quantity						Value in thousands of dollars					
	1910-1914	1921-1925	1925	1926	1927	1928	1910-1914	1921-1925	1925	1926	1927	1928
<b>GROUP 8.—CHEMICALS, ETC.—Continued</b>												
<b>D. Industrial chemicals—Continued</b>												
Calcium compounds—												
Acetate of lime.....1,000 lbs.	70, 371	22, 598	22, 038	18, 559	11, 634	11, 173	1, 681	644	685	625	409	373
Carbide.....do.	31, 101	9, 482	4, 855	4, 634	4, 873	3, 746	988	452	208	134	197	173
Chlorinated lime or bleaching powder.....do.		27, 467	27, 389	20, 358	16, 687	21, 870		508	472	388	311	370
Other, except arsenate and cyanide.....do.						17, 441						486
Ferrous or ferric compounds (coppers and other iron salts).....1,000 lbs.	5, 866	4, 050	6, 139	4, 799	6, 207	725						14
Copper sulphate (blue vitriol).....do.						8, 667	268	206	286	231	321	455
Other copper compounds.....do.						8						5
Lead compounds (except arsenate and pigments).....do.						384						43
Dextrine or British gum.....do.	1 19, 329	22, 678	22, 678	22, 200	24, 659	21, 361		1 773	1, 031	906	1, 092	929
Potassium compounds, n e s.....do.	1 7, 156	4, 310	4, 310	3, 356	3, 960	5, 237		465	599	319	488	609
Sodium compounds, n e s.....do.	1 355, 100	355, 346	355, 346	346, 038	391, 845	542, 350		8, 725	8, 358	8, 427	9, 072	11, 694
Bichromate and chromate.....do.	1 3, 249	7, 269	8, 527	8, 906	8, 906	8, 692		2 445	445	531	593	561
Cyanide.....do.	1 3, 014	11, 592	1, 883	1, 209	1, 209	1, 522		1 368	274	305	213	242
Borate (borax).....do.	25, 979	33, 888	28, 610	73, 908	73, 908	135, 703		1, 176	1, 528	1, 257	2, 422	3, 454
Carbonate (soda ash, sal soda, washing soda).....1,000 lbs.	43, 055	45, 772	52, 186	53, 544	53, 544	66, 662		936	970	1, 096	1, 141	1, 241
Silicate (water glass).....do.	31, 249	40, 517	48, 845	54, 986	54, 986	59, 326		305	354	396	442	462
Hydroxide (caustic soda, lye).....do.	100, 872	100, 955	103, 236	100, 889	100, 889	119, 445		3, 400	2, 996	3, 112	2, 994	3, 458
Bicarbonate (acid soda or baking powder).....do.	15, 403	17, 298	19, 339	18, 287	18, 287	18, 711		944	851	273	338	345
Other sodium compounds, n e s.....do.	1 112, 620	108, 025	83, 854	79, 826	79, 826	152, 319		2, 180	1, 435	1, 357	1, 569	1, 661
Tin compounds.....do.						591						201
Zinc compounds (except oxide).....do.						3, 377						152
Gases, compressed and liquefied—												
Ammonia.....do.						1, 908						315
Carbon dioxide (carbonic acid).....do.						547						56
Chlorine.....do.						5, 498						235
Oxygen.....do.						497						77
Other gases, n e s.....do.						1, 335						232
Other industrial chemicals.....do.							8, 725	9, 151	9, 074	9, 400	10, 528	5, 142



E. Pigments, paints, and varnishes.										20, 614	21, 319	19, 254	18, 986	14, 765	6, 802	19, 254	18, 986	14, 765	6, 802	20, 614
Mineral earth pigments, other, umber, sienna, oxides, whiting, etc.										1, 084	1, 125	1, 006	903	1, 925	35, 733	1, 006	882	1, 925	35, 733	1, 084
Chemical pigments—										1, 850	1, 822	1, 917	1, 504	775	20, 508	1, 917	1, 504	775	20, 508	1, 850
Zinc oxide.....do.										23, 608	223	200	223	146	2, 462	200	223	146	2, 462	23, 608
Lithopone.....do.										12, 655	1, 822	1, 917	1, 504	775	2, 462	1, 917	1, 504	775	2, 462	12, 655
Bone black and lampblack.....do.										133, 637	4, 600	242	250	3, 175	77, 003	242	250	3, 175	77, 003	133, 637
Carbon black.....do.										2, 325	3, 653	1, 175	3, 556	286	4, 168	1, 175	3, 556	286	4, 168	2, 325
Red lead and litharge 4'.....do.										10, 822	271	175	184	944	12, 095	175	184	944	12, 095	10, 822
White lead.....do.										15, 640	947	1, 119	1, 283	716	5, 270	1, 119	1, 283	716	5, 270	15, 640
Other chemical pigments.....do.										1, 16, 281	551	707	760	425	1, 412	707	760	425	1, 412	1, 16, 281
Paints, stains, and enamels—										725	411	366	425	19, 275	1, 412	366	425	19, 275	725	725
Roofing preparations (liquid or plastic)										1, 565	1, 213	1, 147	882	1, 562	642	1, 147	882	1, 562	642	1, 565
Enamel paints.....do.										1, 392	1, 213	1, 147	882	1, 562	557	1, 147	882	1, 562	557	1, 392
Jacquers 4'.....do.										111	5, 378	4, 590	4, 658	3, 669	56	4, 590	4, 658	3, 669	56	111
Ship-bottom paints, anticorrosive and anti-rusting.....do.										5, 294	1, 900	2, 120	2, 363	2, 168	2, 828	2, 120	2, 363	2, 168	2, 828	5, 294
Other ready-mixed paints.....do.										1, 553	1, 900	2, 120	2, 363	2, 168	2, 828	2, 120	2, 363	2, 168	2, 828	1, 553
Stains, paste, paint, and other.....do.										782	1, 740	1, 128	1, 746	1, 587	4, 351	1, 128	1, 746	1, 587	4, 351	782
Varnishes—										588	1, 740	912	746	1, 587	4, 351	912	746	1, 587	4, 351	588
Oil.....do.										1, 223	1, 740	912	746	1, 587	4, 351	912	746	1, 587	4, 351	1, 223
Other varnishes 4'.....do.										16, 065	17, 724	20, 040	17, 288	17, 472	10, 735	20, 040	17, 288	17, 472	10, 735	16, 065
Paint specialties.....do.										4, 373	6, 827	9, 824	6, 749	7, 924	93, 015	9, 824	6, 749	7, 924	93, 015	4, 373
F. Fertilizers and fertilizer materials—										324	492	566	308	1, 338	7, 772	566	308	1, 338	7, 772	324
Nitrogenous fertilizer materials—										615	889	1, 196	2, 283	2, 343	80, 702	1, 196	2, 283	2, 343	80, 702	615
Sulphate of ammonia.....do.										3, 887	3, 843	3, 240	3, 304	3, 607	809, 002	3, 240	3, 304	3, 607	809, 002	3, 887
Other nitrogenous materials.....do.										1, 511	1, 015	1, 069	1, 069	516	88, 613	1, 069	1, 069	516	88, 613	1, 511
Phosphate materials—										1, 936	1, 015	1, 069	1, 069	1, 187	14, 414	1, 069	1, 069	1, 187	14, 414	1, 936
High-grade hard rock.....do.										4, 498	3, 441	3, 288	1, 965	1, 862	104, 260	3, 288	1, 965	1, 862	104, 260	4, 498
Land pebble and other.....do.										5, 185	3, 441	3, 288	1, 965	1, 862	104, 260	3, 288	1, 965	1, 862	104, 260	5, 185
Superphosphates (acid phosphates).....do.										1, 008	1, 724	2, 040	1, 728	1, 742	104, 260	2, 040	1, 728	1, 742	104, 260	1, 008
Prepared fertilizer mixtures.....do.										58, 748	3, 441	3, 288	1, 965	1, 862	104, 260	3, 288	1, 965	1, 862	104, 260	58, 748
Other fertilizers.....do.										1, 008	1, 724	2, 040	1, 728	1, 742	104, 260	2, 040	1, 728	1, 742	104, 260	1, 008
G. Explosives, fuses, etc.										1, 008	1, 724	2, 040	1, 728	1, 742	104, 260	2, 040	1, 728	1, 742	104, 260	1, 008
Explosives—										1, 008	1, 724	2, 040	1, 728	1, 742	104, 260	2, 040	1, 728	1, 742	104, 260	1, 008
Smokeless powder.....do.										1, 154	1, 724	2, 040	1, 728	1, 742	104, 260	2, 040	1, 728	1, 742	104, 260	1, 154
Other gunpowder.....do.										1, 154	1, 724	2, 040	1, 728	1, 742	104, 260	2, 040	1, 728	1, 742	104, 260	1, 154
Blasting powder.....do.										1, 154	1, 724	2, 040	1, 728	1, 742	104, 260	2, 040	1, 728	1, 742	104, 260	1, 154
Dynamite.....do.										1, 154	1, 724	2, 040	1, 728	1, 742	104, 260	2, 040	1, 728	1, 742	104, 260	1, 154
Other explosives.....do.										1, 154	1, 724	2, 040	1, 728	1, 742	104, 260	2, 040	1, 728	1, 742	104, 260	1, 154
Primers and fuses—										1, 154	1, 724	2, 040	1, 728	1, 742	104, 260	2, 040	1, 728	1, 742	104, 260	1, 154
Safety fuses.....do.										1, 154	1, 724	2, 040	1, 728	1, 742	104, 260	2, 040	1, 728	1, 742	104, 260	1, 154
Electric and other blasting caps.....do.										1, 154	1, 724	2, 040	1, 728	1, 742	104, 260	2, 040	1, 728	1, 742	104, 260	1, 154

<sup>25</sup> 1925 only

<sup>47</sup> "Red lead" prior to Jan. 1, 1927.

<sup>48</sup> "Other varnishes" includes "Jacquers" prior to Jan. 1, 1928.

<sup>1</sup> A average for years 1922-1925

<sup>2</sup> A average for years 1913-14.

<sup>10</sup> A average for years 1923-1925.

## No. 537.—EXPORTS OF UNITED STATES MERCHANDISE BY COMMODITY GROUPS AND ARTICLES—Continued

Group and article	Quantity				Value in thousands of dollars							
	1910-1914	1921-1925	1925	1926	1927	1928	1910-1914	1921-1925	1925	1926	1927	1928
GROUP 8.—CHEMICALS, ETC.—Continued												
H. Soap and toilet preparations.												
Soap												
Toilet and fancy		16,768	6,761	8,975	8,187	7,237						
Laundry		{ 53,806	60,707	56,229	56,229	47,617						
Other	52,190	76,213	13,625	13,625	12,962	9,022	5,563	2,784	2,805	3,038	2,802	2,299
								5,821	4,069	4,120	3,878	3,377
									1,222	1,245	1,183	827
Perfumery and toilet waters.								1,482	451	391	374	460
Talcum and other toilet powders.		13,539	3,469	3,289	3,254	3,137		1,090	1,882	1,727	1,621	1,606
Creams, rouges, and other cosmetics.		12,266	2,635	2,889	2,957	3,568		1,144	1,331	1,624	1,707	1,398
Dental creams.				3,119	3,828	2,942				3,021	3,357	2,669
Other dentifrices.		13,374	3,406	3,491	3,697	621		2,712	3,211	3,69	388	331
Other toilet preparations.		11,757	1,745	1,760	2,001		1,209	1,854	1,208	1,281	1,548	1,893
GROUP 9.—MISCELLANEOUS												
Total.							59,005	118,842	127,187	132,904	134,938	142,387
A. Photographic goods.												
Cameras.		1,206	812	437	474	460	7,984	17,399	18,469	18,603	18,686	20,218
Parts of cameras, except lenses.							8,679	1,225	1,223	1,621	2,461	2,424
Motion-picture films—								1,369	384	702	892	574
Sensitized, not exposed.	113,836	{ 55,875	74,605	41,437	49,512	75,015	{ 5,797	{ 1,296	1,589	1,033	1,354	1,727
Exposed.		167,127	235,836	220,628	232,105	222,123		7,048	8,681	7,731	7,231	6,474
Negatives.		18,680	9,830	6,601	9,449	7,712		1,283	1,893	1,385	1,456	1,221
Positives.		104,999	225,656	214,027	222,656	214,411		1,528	6,788	6,396	5,776	5,263
Other sensitized films, not exposed.		121,867	21,911	23,457	20,940	20,562		4,144	3,631	4,371	3,500	4,408
Dry plates.		1,651	722	1,000	664	805		1,430	380	525	370	471
Photographic paper.		11,567	1,802	1,830	1,914	1,925		1,477	1,479	1,471	1,576	2,014
Other photographic apparatus and supplies (including unsensitized picture films).							8,797	1,894	1,122	1,149	1,314	2,133
B. Scientific and professional instruments, apparatus, and supplies.												
Projection apparatus—							4,645	9,886	10,629	12,110	12,300	12,368
Motion-picture machines.		11,238	1,507	1,943	3,042	5,955		1,302	346	521	641	950
Stereopticons, magic lanterns, and other projection apparatus.								1,202	286	295	473	308
Optical goods—												
Spectacles, eyeglasses, and parts of.					4,302	3,453		1,438	925	893	924	927
Lenses, not fitted to instruments.		12,719	3,027	4,959				1,554	903	742	694	466
Other optical goods.							8,768	1,067	1,577	1,715	1,404	1,172



## No. 537.—EXPORTS OF UNITED STATES MERCHANDISE BY COMMODITY GROUPS AND ARTICLES—Continued

Group and article	Quantity						Value in thousands of dollars					
	1910-1914	1921-1925	1925	1926	1927	1928	1910-1914	1921-1925	1925	1926	1927	1928
<b>GROUP 9.—MISCELLANEOUS—Continued</b>												
<b>E. Toys, athletic and sporting goods—Continued</b>												
Athletic and sporting goods—												
Fishing rods, reels, hooks, bait, and tackle								1,284	330	304	323	353
Golf, tennis, foot, basket, and baseballs								1,162	162	227	207	229
Other athletic and sporting goods, except shoes, clothing, and firearms							8,688	1,022	1,063	1,126	940	1,073
Amusement-park and playground devices								18,801	287	318	431	512
<b>F. Firearms and ammunition—</b>							6,806	5,050	5,771	6,284	6,022	6,540
Firearms and ordnance—								633	631	928	915	1,290
Revolvers and pistols	1,46,045	63,552	59,394	61,335	52,841	74,204			525	657	724	588
Rifles	1,91,382	47,561	62,785	63,023	61,520	43,255	3,212	1,034	485	517	510	484
Shotguns		55,461			53,023	52,218						
Machine and heavy ordnance guns and carriages		1,659	352	1,315	525	285		197	101	460	185	87
<b>Ammunition—</b>												
Shot shells	16,3,018	3,880	3,568	3,683	3,683	3,035		16,780	656	973	961	798
Metallic cartridges	5,600	5,486	4,707	4,253	4,253	4,169	2,752	2,436	2,627	2,416	1,994	2,027
Explosive shells and projectiles	1,481	49	66	101	328	101		150	22	22	215	17
Other, including fireworks	1,402	388	651		1,367	590	862	288	124	309	518	249
<b>G. Books, maps, pictures, and other printed matter—</b>							9,194	19,866	21,037	21,934	24,185	24,250
Books and pamphlets									10,472	11,221	11,912	11,824
Maps and charts									221	276	227	206
Muse in books and sheets							8,903	13,561	334	358	347	361
Souvenir post cards									238	213	211	188
Lithographically printed matter, except post cards and maps									2,250	3,053	4,118	3,182
Playing cards	1,7,492	8,012	6,615		6,361	6,525	291	802	857	688	705	752
Other printed matter								1,6,866	6,665	6,124	6,665	7,737
<b>H. Clocks and watches—</b>							3,178	3,180	3,798	3,238	3,598	3,639
Clocks—												
One-day alarm clocks	1,664	678	519	608	607	607		1,823	818	695	751	687
Manuel and novelty clocks			82	75	67	67				312	275	265
Wall clocks			25	25	25	24				167	158	133
Other clocks and parts							1,593	1,343	1,072	403	359	356

Watches.....	thousands.....	792	576	827	832	1,583	1,179	1,255	1,043	1,049	1,062
Without jewels.....	do.....		520	767	771				521	541	534
With jewels.....	do.....		56	59	61				522	508	528
Parts of watches.....	do.....							651	608	630	680
Time-recording devices and parts of.....										376	446
<b>I Art works—Painting and statuary.</b>											
<b>J. Miscellaneous, n. e. s.</b>											
Composition roofing—						985	902	806	1,416	1,371	1,503
Asphalt roofing.....	1,000 squares.....					16,067	40,931	40,391	40,584	38,115	41,861
Asbestos roofing.....	do.....	662	938	854	935				1,212	1,151	1,251
Other roofing.....	do.....	79	95	68	67	1,135	1,782		559	509	446
Billiard tables and accessories.....	do.....	104	144	120	96				185	199	284
Billiard tables.....							364	363	397	351	427
Briftens.....											
Pearl or shell.....	1,000 gross.....	409	351	396	455				141	128	136
Other buttons.....	do.....	1,524	1,415	1,607	1,419	652	177	194	405	361	309
Lamps and illuminating devices, except electric—											
Incandescent mantles.....	1,000 doz.....	200	231	202	241		165	156	180	145	202
Lamps and lanterns.....	thousands.....		3,631	2,772	2,366	2,747	3,431	3,153	2,445	1,888	1,641
Other lighting devices, except glass.....									449	360	392
Matches.....	1,000 lbs.....	833	583	631	1,087	86	215	160	103	95	135
Fire extinguishers.....	number.....	1,002	34,971	28,558	48,598	290	335	280	351	343	358
Fly paper, traps, and swatters.....		145,315				180	191	194	155	148	95
Pyroxylin products, known as celluloid, pyralin, viscoloid, fiberloid, etc.—											
Sheets, rods, tubes.....	1,000 lbs.....	2,464	2,323	1,530	3,147	1,589	2,998	2,087	1,712	1,303	2,264
Manufactures.....	do.....	1,940	2,191	1,039	869			1,924	2,085	1,175	1,065
Brushes—											
Toilet brushes.....	doz.....	280,477	272,286	269,971	264			737	728	706	702
Paint brushes.....	do.....	64,977	64,831	61,190	70,176	598	1,043	247	222	193	200
Other brushes.....	do.....	151,978	186,631	189,631	157,428			388	398	320	286
Plates and cuts, electrotype, stereotype, halftone, lithographic, or engraved.....	1,000 lbs.....	322	337	464	422	76	385	403	402	482	484
Umbrellas or parasols.....	thousands.....	1,121	147	99	90	236	194	215	167	185	167
Candles.....	1,000 lbs.....	1,821	1,253	1,146	1,082	274	284	252	235	263	238
Notions.....						78	1,959	2,124	2,301	1,913	1,913
Refrigerators.....	number.....	10,883	20,763	16,380	13,892	2316	380	536	1,444	697	579
Soda-fountain equipment.....						16,209	228	228	353	331	538
Shoe findings—											
Ties and counters, except rubber.....	1,000 lbs.....	979	563	404	665	65	1,635	250	147	123	185
Other.....								1,319	1,300	1,243	1,532
Trunks.....	number.....	25,311	27,415	29,547	29,655		10,400	473	497	533	621
Household and personal effects.....						7,655	12,506	12,997	13,290	13,945	16,114
All other articles.....						1,386	1,973	9,160	8,563	8,921	9,349

<sup>1</sup> Average for years 1922-1925  
<sup>2</sup> Average for years 1913-14

<sup>3</sup> Average for years 1912-1914  
<sup>4</sup> Average for years 1922-1925

<sup>5</sup> Average for years 1922-1925  
<sup>6</sup> Average for years 1913-14

<sup>7</sup> Average for years 1924-25  
<sup>8</sup> Cartridges loaded prior to 1924.

## No. 538.—GENERAL IMPORTS OF MERCHANDISE BY COMMODITY GROUPS AND ARTICLES

NOTE.—Data are for calendar years except for 1910-1914, which are for years ended June 30. Figures for 1910-1914 and 1921-1925 are annual averages. A greater number of items are shown separately beginning about 1912 and 1922, and for this reason many averages for two, three, and four years are shown in the table. However, averages shown for group totals always cover five years. In some cases the detail does not add to the total because of the different periods covered by the data

Group and article	Quantity						Value in thousands of dollars					
	1910-1914	1921-1925	1925	1926	1927	1928	1910-1914	1921-1925	1925	1926	1927	1928
Total imports of merchandise												
GROUP 00—ANIMALS AND ANIMAL PRODUCTS, EDIBLE												
Total							42,871	89,997	102,517	116,263	136,106	140,208
A. Animals, edible												
Cattle.....1,000 head	397	178	175	221	445	536	7,890	5,924	6,111	9,153	21,104	22,483
Sheep.....1,000 head	88,468	63,200	67,054	42,146	28,598	21,802	7,219	5,296	5,173	6,204	16,450	21,576
Poultry, live.....1,000 lbs.		11,700	2,072	2,108	1,630	1,505	371	405	488	206	225	188
Hogs.....do.				17,931	35,884	3,620		1,351	440	472	398	330
										2,181	4,041	319
B. Meat products												
Beef, fresh.....do.		67,805	63,033	93,069	148,756	183,249	7,702	19,291	25,999	28,701	34,902	35,632
Poultry, prepared.....do.		24,480	12,100	16,213	35,082	50,181		2,696	1,263	1,697	4,339	5,553
Veal, fresh.....do.		3,131	3,710	3,863	7,492	8,139		579	1,300	2,034	2,997	1,396
Pork, fresh.....do.		9,540	7,235	9,156	14,524	7,811		579	1,390	2,034	2,997	1,495
Mutton, fresh.....do.			219	946	494	826		1,339	583	421	398	442
Lamb, fresh.....do.			2,551	2,419	2,151	2,442		1,339	583	421	398	442
Other fresh meats.....do.		2,547	973	1,769	5,212	5,787	5,067	774	179	277	603	871
Poultry, dead.....do.		12,494	2,774	6,027	3,628	5,856		1,877	838	2,690	1,012	1,564
Canned meats.....do.			386	485	581	477			238	295	361	289
Other meats, prepared or preserved.....do.		9,863	10,805	22,794	35,069	55,166		1,396	1,189	2,743	4,311	6,644
Beef and veal, pickled or cured.....do.			2,723	10,862	23,168	15,133			764	2,054	4,014	1,832
Pork ham, shoulders, bacon.....do.						8,469						1,001
Pork, pickled, salted and other.....do.						2,540						902
Sausage casings.....do.						2,516						984
Sheep, lamb, and goat.....do.		16,752	19,517	18,534	6,898	5,934		11,980	19,006	16,493	9,557	8,741
Other casings.....do.					13,857	11,982	2,635				6,275	3,845
C. Animal oils and fats, edible												
Tallow.....do.		4,430	2,793	16,009	16,220	16,665	766	362	300	1,461	1,233	1,844
Other.....do.						14,239						1,105
						2,426						239



## No. 538.—GENERAL IMPORTS OF MERCHANDISE BY COMMODITY GROUPS AND ARTICLES—Continued

Group and article	Quantity						Value in thousands of dollars					
	1910-1914	1921-1925	1925	1926	1927	1928	1910-1914	1921-1925	1925	1926	1927	1928
<b>GROUP 00—ANIMALS AND ANIMAL PRODUCTS,</b>												
<b>EDIBLE—continued</b>												
<b>F. Other edible animal products</b>												
Eggs—												
Eggs of poultry in shell.....1,000 doz.	2, 149	1, 097	609	298	250	286	483	7, 034	9, 855	8, 330	6, 484	7, 968
Whole eggs, dried.....1,000 lbs.		1, 455	677	962	962	1, 835	356	313	163	104	75	83
Whole eggs, frozen.....do		12, 531	9, 392	2, 774	2, 774	11, 124			769	358	501	1, 017
Yolks, dried.....do	999	18, 763	5, 683	4, 398	3, 525	4, 464	127	3, 726	1, 826	1, 626	493	1, 750
Yolks, frozen.....do			5, 800	4, 161	2, 778	3, 029			1, 379	1, 483	1, 388	1, 999
Yolks, frozen prepared, etc.....do			4, 189	3, 469	2, 960	2, 371			959	755	469	600
Egg albumen, dried.....do		6, 107						2, 429	3, 339	2, 450	1, 703	1, 229
Egg albumen, frozen, prepared or preserved.....do		4, 328	3, 611	3, 611	2, 341	650			542	510	346	100
Egg albumen, frozen.....do		3, 237	2, 538	433	533	580		2, 222	260	547	769	795
Meat extract.....do		13, 111	3, 120	2, 421	2, 741	1, 896		1, 720	637	495	541	425
Gelatin, edible.....do												
<b>GROUP 0—ANIMALS AND ANIMAL PRODUCTS,</b>												
<b>INEDIBLE</b>												
<b>Total</b>							174, 142	233, 243	236, 824	300, 228	345, 321	376, 830
<b>A. Hides and skins, raw (except furs)</b> .....1,000 lbs.	590, 911	429, 956	362, 432	363, 976	447, 143	506, 008	104, 381	93, 067	96, 764	93, 811	112, 948	150, 810
Cattle hides <sup>c</sup> .....do	261, 293	229, 908	166, 793	150, 452	237, 234	276, 176	42, 469	33, 598	26, 695	22, 092	41, 360	63, 664
Dry or dry salted (over 12 lbs.).....1,000 lbs.	1, 174	17, 160	11, 831	11, 831	18, 278	21, 620		4, 261	3, 342	2, 229	4, 275	6, 253
Wet salted (over 25 lbs.).....1,000 pieces	3, 901	24, 885	3, 065	2, 816	4, 238	5, 062		29, 332	23, 353	19, 853	37, 085	57, 456
Buffalo hides <sup>c</sup> .....do		204, 922	149, 633	138, 601	218, 955	254, 556						
Dry or dry salted.....1,000 pieces	121	109	131	131	191	264		385	463	546	856	1, 561
Dry or dry salted.....1,000 lbs.	2, 107	2, 226	2, 399	2, 399	4, 053	5, 646		1, 203	242	48	68	26
Wet salted.....1,000 pieces	1, 236	30	6	6	9	2						
Wet salted.....1,000 lbs.	11, 043	1, 118	221	221	303	137						
<b>Kip and calf skins</b> .....do	83, 313	44, 416	28, 812	45, 201	44, 070	45, 335	21, 665	10, 560	8, 599	11, 590	13, 109	16, 105
Kip skins—												
Dry and dry salted (6 to 12).....1,000 pieces	1410	169	169	162	181	332		1, 703	343	312	467	1, 132
Dry and dry salted (less than 6 lbs.).....1,000 lbs.	13, 962	1, 498	1, 498	1, 481	1, 734	3, 158						
Wet salted (12 to 25 lbs.).....1,000 pieces	1, 377	201	277	277	336	478		1, 268	604	835	1, 171	2, 101
Wet salted (less than 12 lbs.).....1,000 lbs.	1, 637	3, 157	4, 880	4, 880	5, 153	7, 556						
<b>Calfskins—</b>												
Dry and dry salted (less than 6 lbs.).....1,000 pieces	2, 858	2, 082	3, 104	3, 104	2, 645	2, 395		3, 410	2, 960	3, 787	3, 603	3, 720
Dry and dry salted (6 lbs.).....1,000 lbs.	11, 798	6, 432	9, 047	9, 047	6, 933	6, 374		5, 568	4, 632	6, 636	7, 868	9, 152
Wet salted (less than 12 lbs.).....1,000 lbs.	3, 017	2, 401	4, 046	4, 046	3, 810	3, 769						
Wet salted (less than 12 lbs.).....1,000 lbs.	24, 401	17, 725	30, 094	30, 094	30, 249	28, 247						



Horse, colt, and ass hides	14,865	11,433	12,029	13,813	10,876	18,482	2,409	1,245	1,500	1,477	1,444	2,371
Dry and dry salted	301	239	239	271	132	300	-----	654	679	638	507	1,010
Wet salted	4,817	3,918	3,918	4,767	2,350	4,438	-----	-----	-----	-----	-----	-----
Wet salted	173	206	206	234	285	234	-----	592	821	840	937	1,361
Wet salted	6,586	8,111	8,111	8,846	8,296	9,004	-----	-----	-----	-----	-----	-----
Sheep and lamb skins	65,077	61,246	61,650	59,138	57,349	63,177	11,025	15,220	23,458	18,148	16,148	20,731
Woolled, dry and green	15,448	15,448	4,492	3,715	3,010	2,514	-----	14,374	5,021	3,288	2,873	2,745
Slats, no wool	116,396	15,047	15,047	13,022	12,045	9,854	-----	-----	-----	-----	-----	-----
Pickled skins	120,653	20,547	20,547	19,504	4,982	5,340	-----	14,206	18,323	15,082	3,885	4,169
Pickled skins	147,075	46,270	46,270	45,005	10,877	10,326	-----	447	114	451	9,390	13,817
Pickled skins	698	120	333	1,111	34,427	42,997	-----	-----	-----	-----	-----	-----
Goat and kid skins	95,822	72,760	81,648	87,005	81,304	90,804	24,575	29,629	53,197	39,084	35,488	41,740
Dry and dry salted	39,456	44,369	44,369	49,013	44,647	47,822	-----	26,752	31,103	35,643	32,053	37,050
Green or pickled	60,186	72,339	72,339	73,378	67,266	73,116	-----	2,877	2,094	3,441	3,430	4,690
Green or pickled	3,823	2,652	2,652	4,469	4,365	5,690	-----	-----	-----	-----	-----	-----
Green or pickled	12,575	9,309	9,309	14,027	14,037	17,688	-----	-----	-----	-----	-----	-----
Kangaroo and wallaby	769	617	617	747	748	728	809	726	561	661	666	688
Deer and elk	863	758	758	901	876	858	-----	-----	-----	937	866	656
Other hides and skins	9,948	6,693	7,398	1,089	913	2,456	2,115	1,586	2,049	1,583	2,841	3,239
Other hides and skins	-----	-----	-----	6,098	8,555	7,988	8,531	15,261	22,412	28,622	37,436	43,238
Upper leather—	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Cattle	111,691	13,392	13,392	20,210	32,086	26,622	-----	1,236	301	177	1,335	1,907
Calf and kip	13,962	4,186	4,186	3,093	2,589	2,814	-----	2,805	4,320	6,881	9,967	9,228
Sheep and lamb, upper and lining	1,496	3,134	3,134	6,734	6,785	9,201	900	472	1,476	313	518	579
Goat and kid, including glazed	1,496	3,134	3,134	6,734	6,785	9,201	-----	-----	-----	3,324	3,524	4,326
Lining leather (calf and kip only)	1,496	3,134	3,134	6,734	6,785	9,201	-----	-----	-----	2,074	3,575	4,697
Patent	1,496	3,134	3,134	6,734	6,785	9,201	-----	770	1,583	1,607	2,474	2,474
Other upper leather	1,496	3,134	3,134	6,734	6,785	9,201	-----	1,975	3,508	1,137	1,706	3,567
Sole leather	4,850	6,356	6,356	7,774	10,257	9,004	7,2102	1,769	2,203	2,352	3,435	4,257
Glove leather	1,429	493	493	272	204	179	7,2126	158	165	108	65	65
Seal, sheep, and calf leather (other than shoe), dressed and finished	-----	-----	-----	3,380	2,868	1,781	-----	-----	-----	1,147	948	572
Leather cut into shoe parts	-----	-----	-----	-----	-----	-----	-----	1,530	545	675	467	637
Rough tanned leather	-----	-----	9,033	10,455	13,450	12,430	2,078	2,427	4,644	5,976	6,415	7,961
Skins for morocco tanned but unfinished	-----	-----	-----	-----	-----	849	-----	-----	-----	-----	-----	925
Rough tanned leather, n s p l	-----	-----	-----	-----	-----	11,582	-----	-----	-----	-----	-----	7,036
Harness leather	1,060	991	991	997	1,105	1,682	3,015	3,612	2,236	879	473	543
Other leather	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	2,205	2,126

<sup>6</sup> Cattle hides include buffalo hides in 1910-1914.

<sup>7</sup> Average for years 1912-1914.

<sup>8</sup> Average for years 1922-1925.

<sup>1</sup> Average for years 1922-1925.

<sup>2</sup> Average for years 1924-25.

<sup>3</sup> Average for years 1913-14.



Furs dressed on the skin, not advanced beyond drying	3,902	7,404	2,396	2,880	2,919	11 4,807	2,743	4,040	2,398	3,352	7,192
do.											1,242
Coney and rabbit					2						706
Silver or black fox, dressed or undressed					235						
Lamb, kid, and sheep skins, 1,000 pieces											
Dog and goat skins, dyed and dressed					1,258						4,117
Other dressed furs											871
Manufactures of fur (except hats, bonnets, and hoods)											
Cut fur for hatters' use, including fur skins	1 407	270	393	253	44		1 643	682	977	442	70
Carroled											
Plates and mats of dog and goat skins	1 1781	2,375	1,038	2,266	332	11 2,267	1,432	7,202	2,514	5,878	1,384
All other							1,869	1,882	4,341	2,272	987
Animal oils, fats, and greases, inedible											
Waste oil	15,483	7,369	8,458	5,300	9,118	1,796	1,322	1,920	2,807	3,307	801
Cod-liver oil	2,452	2,976	4,347	4,496	1,569		1,272	335	358	2,015	1,614
Other fish oil	1,765	828	2,203	6,201	4,560	1,796	359	350	472	432	359
Wool grease	11,322	10,968	11,844	10,974	10,664		1,286	202	565	373	333
Grease and oils n. e. s.											
Other inedible animals and animal products						28,963	27,606	30,805	31,183	28,041	28,952
Animals, inedible—											
Horses—											
For breeding	2,740	391	680	406	415		1,015	1,353	1,681	1,318	608
Other	1 450	1,763	2,347	2,173	2,871	2,528			888	521	700
Birds, live							1 636	748	926	1,011	1,214
Foxes, silver									900	454	185
Other animals									820	916	674
Bones, hoofs, and horns, unmanufactured											
Bone and horn manufactures	89,028	95,742	118,849	139,112	118,789	1,196	1,995	3,312	820	916	
Bristles—											
Crude, not sorted, etc.	25	17	53	3	5	15	27	22	7	3	
Sorted, bunched, or prepared	3,583	4,554	5,327	5,202	4,831	3,156	7,576	8,233	7,080	6,069	
Feathers, crude, not advanced											
Ostrich feathers	143	96	89	73	49	6,225	881	370	342	204	133
All other	3,653	3,335	3,434	2,909	3,114		1,733	1,854	1,970	1,615	1,814
Feathers, artificial or ornamental, suitable for millinery											
Feathers, advanced, not suitable for millinery						2,676	1,050	167	65	60	69
Feathers, colored or advanced, not suitable for millinery, and manufactures											
Glue stock, hide cuttings, etc.	29,242	29,757	45,855	43,372	48,567	1,400	154	195	165	209	179
Gelatin, inedible, and manufactures	2,000	1,675	2,088	2,067	2,361	1,774	1,254	1,401	1,767	1,845	2,341
Glue and glue size, and manufactures	5,886	5,241	6,597	9,194	9,335	946	606	475	525	731	847

<sup>10</sup> 1925 only.  
<sup>11</sup> Average for years 1911-1914.

<sup>7</sup> Average for years 1912-1914.  
<sup>8</sup> "Coney and rabbit" includes "hare" prior to 1925.

<sup>1</sup> Average for years 1923-1925.  
<sup>2</sup> Average for years 1924-25.

## No. 538.—GENERAL IMPORTS OF MERCHANDISE BY COMMODITY GROUPS AND ARTICLES—Continued

Group and article	Quantity					Value in thousands of dollars					
	1910-1914	1921-1925	1925	1926	1927	1928	1910-1914	1921-1925	1926	1927	1928
<b>GROUP 0.—ANIMALS AND ANIMAL PRODUCTS, IN-EDIBLE—Continued</b>											
<b>F. Other inedible animals and animal products—Continued.</b>											
Casain or lactarene.....1,000 lbs.	9,802	17,421	18,804	26,281	24,210	28,651	5,677	1,916	2,852	3,120	3,678
Ivory tusks in natural state.....do.	570	549	565	556	245	189	1,459	1,115	1,285	829	423
Shells, unmanufactured—											
Mother-of-pearl.....do.		5,666	5,484	7,050	6,517	6,517	1,339	1,556	2,041	1,709	1,883
All other.....do.		1,263	1,378	4,512	4,523	2,336	589	248	153	255	270
Sponges and manufactures.....do.		1,431	1,238	1,195	968	1,063	423	837	1,067	1,168	1,249
Beeswax and other animal wax.....do.		1,039	3,557	4,522	5,041	4,402	322	751	1,604	1,635	1,510
Bladders, intestines, etc.....do.				521	300	49			668	180	41
Other inedible animal products.....do.							613	1,673	1,430	1,284	1,245
<b>GROUP 1.—VEGETABLE FOOD PRODUCTS AND BEVERAGES</b>							355,806	798,241	841,383	819,428	815,498
<b>Total.....</b>											
<b>A. Grains and preparations</b>							18,024	32,611	26,237	23,583	26,453
Buckwheat.....1,000 lbs.		17,338	16,160	4,273	3,016	3,168		3,326	306	75	52
Corn.....1,000 bus. of 56 lbs.		1,135	1,085	1,055	5,458	5,665	7,298	1,062	1,190	908	609
Oats.....1,000 bus. of 32 lbs.		5,352	1,178	157	85	489	1,994	1,147	56	32	321
Rice.....1,000 lbs.		12,357	21,680	22,651	10,676	5,660		614	1,207	942	287
Uncleaned.....do.		50,052	53,030	25,447	43,307	29,442		1,823	2,302	2,015	1,170
Cleaned (except paddy).....do.					1,627	2,170			167	107	134
Paddy rice for use in canned foods.....do.					2,386	1,715			245	66	63
Flour, meal, etc.....do.		133,789	1,586	7,746	11,754	18,848	2,314	79	105	15,344	22,040
Wheat.....1,000 bus. of 60 lbs.		1,230	13,901	14,143	1,060	1,150	1,032	23,204	19,691	15,344	22,040
Wheat flour.....1,000 lbs.		25,189	2,223	1,893	1,060	1,558		2,688	72	46	37
Biscuits, wafers, cakes, etc.....do.		1,135	1,232	1,944	2,298	2,393	12,415	284	379	515	602
Macaroni, vermicelli, noodles, etc.....do.		113,882	3,785	6,225	3,513	3,494	5,028	280	396	332	371
Bread, yeast-leavened.....do.		2,138	2,228	2,236	2,281	2,755		2,271	297	297	378
All other.....do.							2,327	1,191	361	265	262
<b>B. Feeders and feeds</b>							2,791	7,990	11,851	11,289	15,707
Hay.....1,000 tons of 2,240 lbs.		133,801	191,848	354,235	115,025	62,384	2,588	1,503	3,375	1,109	564
Oil cake and oil-cake meal—											
Bean (soya and other).....1,000 lbs.		27,802	42,869	53,951	53,951	96,810			885	1,014	1,920
Coconut or copra.....do.		112,848	30,371	38,675	38,606	28,453	133	1,877	445	471	448
All other.....do.			30,362	39,311	96,327	125,543			794	1,639	2,327
Brass, shorts, and other by-product feeds of wheat.....1,000 tons of 2,240 lbs.		1,204	252	185	188	273		1,689	4,429	5,104	8,019



## No. 538.—GENERAL IMPORTS OF MERCHANDISE BY COMMODITY GROUPS AND ARTICLES—Continued

Group and article	Quantity						Value in thousands of dollars					
	1910-1914	1921-1925	1926	1927	1928	1910-1914	1921-1925	1926	1927	1928	1929	
GROUP 1.—VEGETABLE FOOD PRODUCTS AND BEVERAGES—Continued.												
D. Fruits and nuts—Continued.												
Fruits—Continued.												
Grapes.....1,000 cu. ft.	1,464	637	120	88	138	1,739	1,091	550	326	300	318	
Currents.....1,000 lbs.	32,559	26,021	13,316	11,961	10,667	1,355	2,046	945	729	947	960	
Dates.....do	29,157	57,237	78,706	38,409	58,841	603	2,712	3,575	1,749	2,869	2,869	
Figs.....do	19,142	38,978	43,662	31,018	38,738	931	2,619	3,176	3,017	1,967	2,864	
Raisins and other dried grapes.....do	3,582	11,887	6,115	2,537	2,390	276	1,270	733	465	330	312	
Citron or citron peel.....do	3,476	3,071	4,854	3,886	4,447	—	1,720	741	763	496	472	
Ginger root, prepared or preserved.....do	2,752	770	1,289	959	883	—	2,123	126	165	122	100	
Jellies, jams, marmalades, and fruit butter.....do	—	—	—	—	—	—	—	—	—	—	—	
Other fruits, natural, prepared, or preserved.....1,000 lbs.	2,881	3,212	3,533	4,049	3,726	—	2,458	480	538	594	492	
Other fruits, natural, prepared, or preserved.....1,000 lbs.	—	30,049	32,686	26,321	33,747	2,221	3,699	1,559	1,723	1,704	1,808	
Nuts												
Chestnuts, including marrons.....1,000 lbs.	24,435	25,710	25,898	11,731	20,283	13,681	29,468	34,355	33,088	30,837	31,215	
Cocanuts, in the shell.....thousands	69,091	60,916	56,837	61,315	65,360	1,773	1,802	1,980	1,362	1,653	1,568	
Almonds.....do	—	—	—	—	—	—	—	—	—	—	—	
Shelled.....1,000 lbs.	17,204	21,770	16,144	17,676	16,352	3,466	4,167	6,342	7,709	6,470	5,869	
Not shelled.....do	20,022	4,030	801	479	1,371	979	2,208	856	95	55	174	
Brazil and cream.....do	—	—	46,459	24,438	24,704	—	—	2,323	3,033	2,625	3,259	
Coconut meat, desiccated or prepared.....do	—	—	28,864	33,994	46,696	—	—	2,383	2,683	3,041	4,005	
Product of the Philippine Islands.....do	—	12,496	24,509	26,271	13,766	—	2,212	1,859	1,775	2,187	1,116	
Other.....do	7,411	32,140	22,899	21,005	—	7,569	2,491	1,859	1,775	2,187	1,116	
Pilberts.....do	—	—	—	—	—	—	—	—	—	—	—	
Shelled.....do	11,963	5,419	7,135	5,630	5,227	—	932	1,218	1,464	1,082	907	
Not shelled.....do	—	12,916	10,876	9,605	13,266	—	1,186	1,589	1,480	1,184	1,373	
Walnuts.....do	—	—	22,576	19,574	15,800	—	—	6,696	6,454	4,210	4,210	
Shelled.....do	33,667	18,148	22,756	19,574	15,800	3,984	5,410	5,688	6,454	4,210	4,210	
Not shelled.....do	—	27,331	25,649	12,139	15,596	—	3,284	3,335	3,236	1,459	1,923	
Peanuts.....do	—	—	42,690	38,805	55,862	—	—	3,692	1,984	1,651	3,065	
Shelled.....do	25,460	44,233	42,690	4,490	13,739	1,051	2,072	1,984	1,984	1,984	3,065	
Not shelled.....do	—	5,397	8,990	4,490	13,739	—	245	106	190	179	591	
Peanuts.....do	—	1,868	1,043	256	549	—	172	106	116	43	56	
Pignolia.....do	—	768	690	629	596	—	148	189	216	258	206	
Pistache.....do	—	2,647	765	1,519	1,641	—	2,480	340	350	582	571	
Other edible nuts, n. e. s.....do	—	2,481	2,016	4,647	5,320	1,155	869	495	437	1,041	1,267	
E. Vegetable oils and fats, edible.												
.....1,000 lbs.	40,403	73,528	90,491	75,213	82,985	7,376	13,287	13,925	17,635	13,925	14,958	
Cocoa butter.....do	4,033	2,553	64	157	21	1,034	603	23	58	23	58	

Olive oil, edible.....do.....	36, 575	70, 941	90, 427	78, 506	75, 025	82, 944	6, 342	12, 684	15, 657	13, 901	17, 577	14, 951
In packages weighing less than 40 pounds.....do.....		1 48, 387	51, 509	50, 086	43, 099	48, 598		2 8, 122	8, 721	8, 894	10, 159	8, 845
Other.....do.....		1 34, 420	38, 918	27, 820	31, 926	34, 346		2 5, 998	6, 936	-5, 017	7, 418	6, 106
<b>F. Cocoa, coffee, and tea.</b>												
Cocoa or cacao beans.....do.....	141, 800	364, 848	382, 019	426, 287	424, 987	379, 227	194, 855	283, 109	357, 101	398, 332	380, 768	386, 082
Cocoa, prepared.....do.....	2, 940	3, 059	3, 182	3, 003	3, 428	4, 953	16, 009	31, 329	38, 246	42, 749	56, 816	47, 205
Chocolate, prepared.....do.....			1 1, 007	2, 926	2, 634	4, 454	690	690	467	585	539	625
Coffee.....do.....	890, 339	1, 340, 272	1, 283, 685	1, 493, 316	1, 433, 340	1, 456, 517	101, 455	205, 792	286, 235	322, 746	393	1, 386
Extracts of, and substitutes for coffee.....do.....	2, 916	14, 051					69	14, 232			294, 275	309, 644
Tea.....do.....	95, 126	94, 491	100, 962	95, 930	89, 169	89, 824	16, 732	25, 284	31, 454	31, 349	28, 192	27, 722
<b>G. Spices.</b>												
Peppercorn.....do.....	58, 330	95, 795	103, 332	85, 239	111, 202	98, 399	7, 268	13, 851	19, 811	10, 388	20, 088	20, 588
Celery seed.....do.....		10 4, 143	4, 143	4, 217	5, 568	4, 940		10 671	671	764	1, 249	916
Cumin and cumin seed.....do.....		2 738	839	1, 187	678	656		2 194	223	205	110	104
Cumin seed.....do.....		1 1, 485	1, 107	1, 021	1, 227	894		2 349	389	413	563	408
Caraway seed.....do.....		1 1, 560	1, 476	708	1, 083	1, 036		2 221	170	45	95	99
Cardamom seed.....do.....		1 5, 090	4, 829	4, 478	4, 107	4, 099		2 482	328	300	327	359
Cardamom seed.....do.....		1 150	181	186	222	188		2 182	238	221	197	187
Capicum or red or cayenne and chili pepper, unground.....do.....		4 085	2, 194	1, 290	1, 976	3, 264		496	278	161	347	501
Cassia and cassia vera.....do.....		8, 334	8, 334	7, 736	12, 099	7, 353	1 485	569	602	568	939	559
Cloves, unground.....do.....	7 6, 807	5, 994	6, 686	6, 824	5, 673	5, 162		1, 221	1, 486	1, 282	924	903
Ginger root, unground, not prepared.....do.....	7 5, 836	5, 015	4, 265	4, 952	3, 119	3, 930	7 313	585	610	365	226	360
Mustard.....do.....												
Unground.....do.....		12, 705	14, 062	14, 755	24, 325	16, 048		619	787	995	1, 242	888
Ground or prepared.....do.....		1, 501	1, 612	1, 742	1, 563	1, 979		838	900	994	850	1, 117
Nutmegs, unground.....do.....		4, 021	4, 338	3, 703	4, 573	4, 241		753	1, 332	1, 004	1, 128	851
Mace, unground.....do.....		1 691	642	703	876	657		2 411	474	417	560	442
Pepper, unground—												
Black.....do.....	23, 018	33, 316	30, 814	16, 658	25, 982	24, 438	2, 121	2, 898	3, 349	3, 376	6, 032	7, 353
White.....do.....		2 3, 298	7, 214	2, 703	6, 137	4, 186		1, 421	1, 421	748	2, 000	1, 887
Pimento (allspice), unground.....do.....		2 3, 298	4, 114	3, 037	1, 926	2, 455		2 180	280	377	279	392
Pimentos, whole.....do.....		2 3, 298	4, 114	3, 037	6, 516	4, 629		2 272	52	465	766	510
Vanilla beans.....do.....	945	983	946	1, 152	993	1, 449		3, 351	5, 807	2, 828	1, 935	2, 290
Other spices.....do.....	26, 782	12, 881	4, 630	4, 645	3, 630	6, 225	2, 020	1, 552	4, 434	800	289	462
<b>H. Sugar and related products.</b>												
Sugar cane, natural.....do.....	43, 438	831	120		229		103, 414	393, 517	268, 407	244, 532	270, 875	230, 319
Beet sugar.....do.....	4, 341, 058	8, 117, 916	8, 919, 532	9, 420, 078	8, 431, 414	7, 736, 986	1 015	30	246, 008	232, 530	258, 158	801
Canoe sugar.....do.....							103, 517	295, 361			5	22
Product of Philippine Islands and Virgin Islands.....do.....												207, 029
Other.....do.....	232, 340	614, 419	1, 006, 641	773, 162	1, 072, 715	1, 172, 066	5, 827	30, 077	43, 012	30, 201	43, 223	47, 786
Molasses.....do.....	4, 108, 717	7, 503, 497	7, 012, 391	8, 646, 916	7, 398, 089	6, 564, 940	265, 284	202, 996	202, 996	202, 329	209, 665	139, 240
Sugar candy and confectionery, n e s.....do.....	33, 859	159, 362	286, 929	209, 725	244, 904	266, 802	7, 138	18, 984	18, 984	10, 472	10, 613	10, 237
Sugar candy and confectionery, n e s.....do.....	1, 319	1, 500	3, 316	638	3, 034	3, 757	2, 245	462	689	718	887	976
Maple sugar and maple sirup.....do.....	4, 506	3, 247	4, 804	4, 598	6, 705	7, 320	238	406	685	718	1, 173	1, 235
Honey.....do.....	1, 254	911	252	291	362	106	57	63	41	41	40	25

Average for years 1921-1923.

Ton of 2,000 pounds

Average for years 1922-1925.

1925 only.

Average for years 1924-26.

Average for years 1912-1914.

## No. 538.—GENERAL IMPORTS OF MERCHANDISE BY COMMODITY GROUPS AND ARTICLES—Continued

Group and article	Quantity						Value in thousands of dollars				
	1910-1914	1921-1925	1925	1926	1927	1928	1910-1914	1921-1925	1925	1926	1927
<b>I. BEVERAGES</b>											
<b>GROUP 1.—VEGETABLE FOOD PRODUCTS AND BEVERAGES—Continued</b>											
Lemon, lime, and sour orange juice, not more than 2 per cent alcohol.....	3,966	1 445	511	560	421	278	21,873	2,215	1,578	1,687	1,881
Distilled liquors.....	7,410	142	58	72	70	79	6,833	1 419	492	507	432
Wine.....	377	377	77	49	27	51	10,265	726	156	145	311
Ginger ale or beer, not alcoholic.....	2,881	1 69	54	70	76	255	1,002	2 03	69	83	87
Mineral water.....	2,881	674	794	747	1,002	833	3,773	278	360	321	503
Other beverages and fruit juices.....								331	213	254	430
<b>GROUP 2.—VEGETABLE PRODUCTS, INEDIBLE, EXCEPT FIBERS AND WOOD</b>											
<b>Total</b> .....							210,698	443,019	722 901	802,748	696,922
<b>A. Rubber and manufactures</b>											
Rubber, crude, and milk of it.....	105,736	681,100	888,478	925,878	954,750	978,107	87,749	197,785	437,187	515,937	348,967
Jelutong or pontuanak.....	44,576	9,659	15,119	16,268	17,438	16,917	2,175	192,922	429,705	505,818	339,859
Balete.....	1,129	1,481	1,159	792	1,303	1,638	673	820	1,643	3,128	2,449
Gutta-percha.....	1,193	2,566	3,591	3,237	3,346	3,578	255	417	575	327	477
Gum arabic.....	11 421	3 879	8 469	9 643	11 241	6 892	11 5,465	3 780	629	661	728
Other crude, scrap, and reclaimed.....	31,990	12,745	25,459	31,929	21,497	20,400	2,640	612	1,803	2,562	2,675
Rubber belting for machinery.....		1 638	749	732	638	531		1 444	590	488	389
Rubber tires.....				17,504	5,450	4,469				161	70
Other manufactures of rubber.....							1,289	1,377	1,298	1,328	1,407
<b>B. Gums, resins, and balsams, n. e. s.</b>											
<b>Varnish gums and resins—</b>											
Damar.....	27,752	20,864	12,697	15,156	15,492	15,851				2,280	2,128
Kauri.....			4 634	5 456	4 092	5 119				813	589
Shelac.....	20,455	27,183	10,913	31,296	25,102	24,056	2,843	14,968	10,164	10,515	10,395
All other.....		1 33,884	37,037	51,344	49,231	44,955		14,611	5,857	6,563	6,904
<b>Tar, pitch, and turpentine</b>											
Camphor.....							47	1 200	277	517	350
Natural, crude.....	3,219	2,248	2,369	2,019	1,690	4,365	932	1,341	1,301	1,168	810
Natural, refined.....	451	2,691	1,835	1,170	1,481	1,176				763	823
Synthetic.....				2,944	2 934	2 265				921	1,263
Chicle.....	8,577	8 913	12 145	12 831	12 167	12 435	3 374	4 455	5 986	6 204	6 156
Balsam, crude.....		395	500	825	413	401				181	204
Arabic.....		8 034	7 256	10 293	8 056	9 537		842	753	1 002	691



Tragacanth.....do.....	11,000	966	1,415	1,434	1,708	1,423	740	766	882
Other gums and resins, n. e. s.....do.....	11,372	17,230	20,688	14,877	12,654	1,966	1,438	1,466	1,464
<b>C. Drugs, herbs, leaves, roots, etc.</b>									
Cinchona bark or other from which quinine may be extracted.....1,000 lbs.	3,444	2,333	3,906	1,886	1,544	319	906	1,056	414
Pyrethrum or insecticide flowers.....do.....	14,451	6,435	9,833	8,983	13,689		1,237	1,219	3,892
Licourea root.....do.....	63,499	77,827	82,015	80,195	69,402	1,718	1,832	2,375	1,872
Licourea extract.....do.....	11,537	1,689	1,169	724	1,109		236	236	215
Opium, crude, 8.5 per cent. or more morphine.....1,000 lbs.	489	105	144	145	103	2,129	717	952	648
Stenna.....do.....	13,144	2,984	3,695	2,558	2,389		241	179	165
All other.....do.....	19,148	19,968	22,885	22,829	25,655		2,746	3,142	3,821
<b>D. Oilseeds.</b>									
Cottonseed.....1,000 lbs.	175,909	63,832	58,951	10,832	1,044	15,128	64,725	70,505	60,749
Castor beans.....do.....	79,797	107,232	100,965	122,957	140,499		760	760	15
Copra.....do.....	43,473	289,278	364,076	400,695	481	907	4,841	3,385	4,578
Flaxseed.....1,000 bus. of 56 lbs.	40,652	16,934	22,550	21,821	17,579	1,807	12,330	20,811	22,778
Poppy seed.....do.....	7,258	3,535	5,161	6,950	6,240	12,824	39,683	41,383	31,245
Perilla and sesame seed.....1,000 lbs.	15,183	2,883	2,883	2,949	9,996	1,489	351	595	477
Other oil seeds.....do.....	26,305	20,016	17,880	17,119	23,881		965	156	471
<b>E. Vegetable oils.</b>									
Expressed oils and fats.....do.....									
Chinese wood oil or nut oil.....1,000 lbs.	17,47,800	75,354	83,004	89,650	100,222	22,498	65,668	71,708	69,660
Product of Philippine Islands.....do.....	10,221	232,499	245,129	293,370	290,637	19,143	58,311	66,135	61,094
All other.....do.....	50,057	6,181	676			1,2,652	11,386	9,146	13,419
Olive oil, medible.....do.....									
Sulphured or foots.....do.....	13,223	40,823	40,300	42,307	39,547	1,029	19,650	23,088	23,061
Other.....do.....	5,161	10,384	9,925	6,819	8,724	4,073	516		
Palm oil.....do.....	61,060	90,025	130,179	159,911	169,228	3,999	6,515	10,112	11,067
Palm-kernel oil.....do.....	27,943	19,918	52,924	43,115	53,812	1,2,343	4,699	7,087	4,389
Sesame oil.....do.....			8,862	1,704	6,239		1,776	1,046	665
Vegetable tallow.....do.....	16,726	6,424	3,779	5,688	5,341		505	312	390
Vegetable wax.....do.....	4,819	7,704	8,234	10,150	4,012	987	1,310	2,250	2,627
Peanut oil.....do.....	(11)	6,384	3,027	2,847	4,749	(11)	387	866	530
Rape (colza) oil.....1,000 gals.	1,299	1,695	2,798	2,647	2,250		1,459	2,031	1,504
Linseed oil.....1,000 lbs.	12,788	54,830	15,941	14,946	13,116	1,230	1,407	1,033	14
Soy-bean oil.....do.....	18,997	20,975	30,712	14,915	13,116	1,015	1,305	2,151	824
Caruba wax.....do.....				5,471	5,471		1,507	888	1,516
Perilla oil.....do.....				2,011	2,011			214	214
Other expressed oils.....do.....	16,197	11,182	21,369	7,678	7,849	2,725	1,417	2,404	637

<sup>1</sup> Average for years 1923-1925  
<sup>2</sup> Average for years 1924-25  
<sup>3</sup> Average for years 1921 and 1924-25.

<sup>4</sup> Average for years 1913-14  
<sup>5</sup> Average for years 1912-1914  
<sup>6</sup> Average for years 1922-1923.

<sup>7</sup> Average for years 1911-1914  
<sup>8</sup> "Guayule" is included with "crude rubber" in 1910  
<sup>9</sup> "Peanut oil" is included with "Chinese wood oil or nut oil"

## No. 538.—GENERAL IMPORTS OF MERCHANDISE BY COMMODITY GROUPS AND ARTICLES—Continued

Group and article	Quantity					Value in thousands of dollars				
	1910-1914	1921-1925	1926	1927	1928	1910-1914	1921-1925	1926	1927	1928
GROUP 2.—VEGETABLE PRODUCTS, INEDIBLE, ETC.— Continued										
E. Vegetable oils—Continued										
Essential and distilled oils.....										
Cassia and cinnamon.....	1,000 lbs.	203	322	378	319	3,355	5,278	6,545	6,573	6,700
Geranium.....	do	156	222	186	173		746	808	474	488
Orto of roses.....	do	52	34	26	35		282	298	364	409
Bergamot.....	1,000 lbs.	116	76	104	100		1,303	403	418	354
Citronella and lemon grass.....	do	1,108	1,320	1,466	1,408		1,804	1,059	745	612
Lavender and spike lavender.....	do	1,217	1,383	323	296		1,004	568	509	593
Lemon.....	894	630	488	400	477	537	382	447	974	708
Orange.....	do	1,218	228	204	196		1,478	469	506	709
Sandalwood.....	do	330	29	4	12		183	103	16	41
All other essential and distilled oils.....	do	3,170	3,432	3,496	3,860	2,813	3,098	2,134	1,793	1,865
F. Dyeing and tanning materials, n. e. s.										
Logwood.....	tons	26,797	22,788	32,211	33,113	6,175	8,149	8,190	7,890	9,245
Myrobalsans fruit.....	do	116,012	17,880	27,376	16,179	18,425	314	403	610	611
Quebracho wood.....	do	26,439	22,789	60,926	76,995		1,415	422	468	578
Sumac.....	do	4,935	2,856	3,571	3,905	1,045	368	387	510	538
Valonia.....	1,000 lbs.	117,622	19,735	19,413	11,807	18,273	347	346	304	267
Gambier or terra japonica.....	do	6,184	3,881	10,495	3,962		1,307	344	332	317
Other gude.....	do	168,267	59,947	76,543	67,375	924	433	366	276	235
Extracts for dyeing, coloring, etc.....	do	3,153	3,817	1,275	1,441	737	1,208	1,322	1,309	1,495
Extracts for tanning.....	do	117,246	113,177	112,002	97,040		255	340	229	131
Quebracho.....	do	86,204	102,162	112,002	97,040	2,584	4,335	3,946	4,930	4,320
All other.....	do	8,284	2,928	1,792	4,043	327	249	144	82	166
G. Seeds, except oil seeds.....										
Field seeds—	do					8,199	11,528	11,874	9,523	9,112
Alfalfa.....	do	17,184	2,505	3,493	635		1,995	464	888	697
Clover.....	do	33,994	36,161	21,548	23,606	3,199	4,618	5,750	5,631	103
Red.....	do	12,089	11,463	7,285	6,565		1,996	1,129	1,577	1,266
Alsike.....	do	19,532	11,757	5,555	6,161		1,319	1,956	1,339	1,251
Chinon.....	do	16,097	5,875	1,246	7,046		1,403	316	1,168	286
Other.....	do	12,546	7,093	6,856	4,276		1,589	946	1,083	744
Vetch.....	do	13,066	10,640	4,220	3,691		1,945	989	276	297
Grass seeds.....	do	10,447	8,632	7,641	9,691		1,070	383	1,116	695
Sugar-beet seeds.....	do	10,510	12,472	7,641	9,691	7,157	1,297	1,267	1,181	1,305
Other seeds.....	do	11,550	12,472	13,379	13,023	2,187	1,453	671	1,367	1,302

No. 538.—GENERAL IMPORTS OF MERCHANDISE BY COMMODITY GROUPS AND ARTICLES—Continued

Group and article	Quantity					Value in thousands of dollars						
	1910-1914	1921-1925	1925	1926	1927	1928	1910-1914	1921-1925	1925	1926	1927	1928
GROUP 2.—VEGETABLE PRODUCTS, INEDIBLE, ETC.—												
Continued												
E. Vegetable oils.—Continued												
Essential and distilled oils.												
Cassia and cinnamon.....						319	\$ 3,365	5,276	6,346	6,573	6,449	6,700
Geranium.....	1,156	203	222	222	378	173	.....	1,746	808	474	488	478
Otto of roses.....	152	57	84	76	180	85	.....	2,982	208	526	469	528
Bergamot.....	1,199	116	76	104	104	100	.....	1,863	408	364	297	354
Citronella and lemon grass.....	1,108	1,322	1,320	1,466	1,406	1,408	.....	1,804	745	612	606	606
Lavender and spike lavender.....	1,217	183	198	323	298	298	.....	1,004	598	609	639	708
Lemon.....	530	488	508	400	477	477	.....	687	447	974	727	708
Orange.....	1,218	228	209	204	196	196	.....	1,478	459	506	495	499
Sandalwood.....	189	22	5	4	4	12	.....	1,183	103	13	10	41
All other essential and distilled oils.....	1,3170	3,019	3,492	3,496	3,496	3,890	.....	2,818	2,134	2,043	1,793	1,865
F. Dyeing and tanning materials, n. e. s.												
Logwood.....	18,34,757	26,797	24,926	24,926	32,211	33,113	.....	6,175	8,149	7,890	10,103	9,245
Myrobalsam fruit.....	116,012	17,880	13,774	13,774	27,376	18,179	.....	18,425	514	578	611	611
Quebracho wood.....	78,345	20,439	32,008	32,008	60,929	75,966	.....	1,045	403	488	578	578
Sumac.....	4,385	2,836	3,871	4,573	3,965	3,965	.....	3,368	387	510	978	1,228
Valonia.....	117,622	19,755	19,413	10,435	11,807	11,807	.....	1,045	347	304	267	194
Gambier or terra japonica.....	6,184	3,881	4,016	3,989	3,862	3,862	.....	924	433	344	332	317
Other article.....	1,68,267	59,947	66,661	76,543	67,375	67,375	.....	1,208	1,322	1,309	1,550	1,495
Extracts for dyeing, coloring, etc.....	3,153	3,817	2,373	1,776	1,441	1,441	.....	255	320	229	131	121
Extracts for tanning.....							.....					
Quebracho.....	86,204	113,177	102,162	112,022	97,040	97,040	.....	2,584	3,946	3,745	4,930	4,320
All other.....	8,284	4,046	2,928	1,792	4,043	4,043	.....	327	144	97	83	166
G. Seeds, except oil seeds.....												
Field seeds—												
Alfalfa.....	17,184	2,505	4,826	3,493	686	686	.....	1,966	464	888	697	103
Clover.....	33,994	36,161	40,212	21,548	23,906	23,906	.....	4,618	5,750	5,631	4,028	3,681
Red.....	12,089	11,463	18,157	7,265	6,565	6,565	.....	1,966	2,532	3,166	1,577	1,266
Alaska.....	19,832	11,757	5,555	6,161	6,394	6,394	.....	1,319	1,916	1,129	1,539	1,251
Crimson.....	16,067	5,875	4,078	1,240	3,040	3,040	.....	1,403	910	263	108	108
Other.....	12,546	7,069	12,422	6,856	7,631	7,631	.....	1,589	946	1,083	744	778
Vetch.....	13,086	10,640	4,175	4,290	4,276	4,276	.....	1,945	989	276	297	247
Grass seeds.....	10,447	3,497	2,692	7,641	9,691	9,691	.....	1,070	333	1,116	695	1,305
Sugar-beet seeds.....	27,184	3,497	2,692	7,641	9,691	9,691	.....	1,070	333	1,116	695	1,305
Other seeds.....	11,550	12,472	10,790	13,379	13,023	13,023	.....	1,458	1,267	1,181	1,367	1,302
							.....	2,187	671	2	2	4

## No. 505.—GENERAL IMPORTS OF MERCHANDISE BY COMMODITY GROUPS AND ARTICLES—Continued

Group and article	Quantity					Value in thousands of dollars						
	1910-1914	1921-1925	1925	1926	1927	1928	1910-1914	1921-1925	1925	1926	1927	1928
<b>GROUP 3.—TEXTILES—Continued</b>												
<b>B. Cotton, semimanufactures.</b>												
Cotton waste.....	39,598	36,063	36,365	29,736	24,730	48,108	6,099 1,918	8,389 3,337	9,043 3,727	8,463 2,147	5,397 1,523	6,323 3,012
Yarns and warps—												
Not bleached, dyed, colored, etc.....do.....			29	93	34	20			34	83	22	21
Bleached, dyed, colored, combed, or plied.....do.....	7,395	4,238	3,890	3,568	3,271	2,377	4,178	5,052	5,282	4,232	3,753	3,290
<b>C. Cotton manufactures.</b>												
Sewing thread, crochet, darning, and knitting cotton.....							61,317	78,178	70,238	60,697	60,800	62,974
Cotton cloth.....								2,890	3,469	2,388	1,902	1,482
Not bleached.....	53,893	150,874	109,249	60,680	68,002	61,295	9,041	35,963	26,424	16,238	15,596	15,842
Bleached.....	4,235	67,337	75,397	33,115	27,451	23,515	493	13,240	15,423	6,839	6,156	4,753
Colored, dyed, printed, etc., and woven figured.....	49,658	14,001	4,532	5,236	10,146	11,301	8,548	3,747	1,584	1,533	2,154	2,408
<b>Cotton fabrics, n. e. s.</b>								18,926	9,417	7,886	8,286	8,681
Denmark and manufactures of.....							1,895	2,988	5,233	7,751	9,136	9,119
Pile fabrics and manufactures.....								1,405	399	314	302	276
Velvets and velveteens.....							1,935	793	1,178	2,386	2,736	3,177
Other.....							3,550					2,750
Tapestries and other Jacquard woven upholstery cloths.....												427
Blankets.....				650	669	497		1,867	3,265	4,845	5,498	5,068
Table covers, napkins, doilies, etc.....								3,400		332	289	320
<b>Wearing apparel.</b>								12,815	13,468	15,294	13,901	16,985
Product of Philippine Islands.....							8,267	3,113	3,969	5,422	3,521	3,639
Knit goods—												
Gloves.....				2,111	2,190	2,494		4,480	5,488	6,514	6,544	8,280
Hosiery.....	1,414	1,659	1,653	407	528	797	3,613	1,635	1,942	1,612	1,793	2,593
Underwear and other knit goods.....do.....	764	85,998	83,693	163,263	163,263	83,545	917	244	294	291	431	375
Wearing apparel wholly or partly of lace, or embroidered, beaded, etc.....								12,632	1,038	624	717	760
All other.....							3,732	1,765	748	832	895	1,395
<b>Other cotton manufactures.</b>								23,538	21,635	19,007	20,208	19,546
Handkerchiefs and mufflers—												
Not of lace or embroidered, etc.....		397	278	278	228	199		2,145	1,236	878	681	626
Lace trimmed, or embroidered, etc.....do.....	1,006	319	257	347	347	406	7,420		1,346	1,278	1,302	1,194

[illegible]

Average for years 1922-1925.

Average for years 1912-1914.

<sup>2</sup> Average for years 1924-25.

Average for years 1922-1925



										1,027	1,042	851
Other floor coverings.....do.												
Other manufactures of fibers, textile grasses, straw, etc., n. e. s.....do.										2,983	1,827	3,106
<b>I Wool, including mohair, etc, unmanufactured</b>												
.....1,000 lbs.	207,584	339,811	339,253	4,803	5,085	3,675	794	1,616	102,389	141,967	106,721	82,933
Carpet wool (actual weight).....do.	105,124	138,453	137,970	115,521	144,256	149,326	14,810	29,695	20,604	47,232	30,102	37,470
On the skin or in the grease.....do.		115,270	118,908	77,001	99,942	107,876		20,534	34,433	19,519	24,620	25,904
Washed or scoured.....do.		34,194	33,062	38,520	44,314	41,450		10,169	12,749	10,583	12,860	12,043
Clothing wool (actual weight).....do.	83,046	63,677	23,470	15,223	17,461	18,408	10,497	17,137	10,908	5,371	6,020	8,061
In the grease (actual weight).....do.		16,192	19,589	14,876	16,772	17,580		6,740	8,376	5,163	5,657	7,450
And washed (clean content).....do.		9,392	10,967	8,255	9,226	9,843		2,778	2,532	208	363	601
Scoured.....do.		4,440	3,890	347	689	838						
Combing wool (actual weight).....do.	19,414	132,028	153,196	168,708	102,791	79,627	4,932	53,355	82,543	65,915	38,295	31,729
In the grease (actual weight).....do.		124,432	150,961	166,969	101,863	71,122		2,616	79,132	64,798	37,451	30,814
And washed (clean content).....do.		72,876	88,070	96,913	60,923	42,966		3,452	3,411	1,118	814	915
Scoured.....do.		5,120	4,535	1,739	1,428	1,505						
Hair of the Angora goat, Cashmere goat, alpaca, etc (actual weight).....1,000 lbs.	(21)	5,653	2,005	10,814	2,779	4,192	(24)	2,201	1,274	1,274	5,332	2,134
Hair of the Angora (actual weight).....do.		13,454	1,768	10,666	2,499	3,263		1,065	876	5,249	1,028	1,633
goat (mohair)..... (clean content).....do.					1,799	2,407						
Hair of the Cashmere (actual weight).....do.		11,226	838	148	281	929		1,518	398	83	151	501
goat, alpaca, etc..... (clean content).....do.					182	636						
<b>Wool, semimanufactured</b>												
.....1,000 lbs.												
Noils.....do.			7,469	4,753	9,137	8,499		20,544	18,418	11,473	14,579	16,131
Wool rags, locks, and mungo.....do.		33,041	23,382	20,320	19,409	23,003		12,161	6,923	2,658	5,634	6,539
Wastes.....do.			4,763	3,993	4,451	4,678		3,107	3,107	6,723	5,780	6,559
Tops of wool, mohair, and other hair.....do.			316	98	235	64		200	215	219	219	2,095
Other wool advanced.....do.		4,902	10	1	(25)	1		3,288	9	2	(26)	1
Yarns.....do.		3,967	1,133	664	289	204		5,094	1,672	906	479	386
Mohair.....do.		1,774	416	327	115	60		1,958	516	372	130	75
Wool or other hair.....do.		1,250	717	337	174	144		1,958	1,156	534	349	311
<b>K Wool manufactures</b>												
.....1,000 lbs.												
Woven fabrics of mohair and wool.....do.		22,082	21,438	19,498	22,421	18,642	12,578	18,774	21,984	20,949	22,285	19,285
.....1,000 sq. yds.		8,586	10,387	10,312	11,210	9,819						
Mohair fabrics.....do.		396	465	148	372	416		1,214	247	79	226	170
.....1,000 sq. yds.		1,102	109	40	119	91						
Worsted—												
Weighting not over 4 oz per sq yd.....do.		212	157	107	101	306		1,104	81	56	44	135
.....1,000 lbs.		148	36	25	21	38						
Weighting over 4 oz per sq yd.....do.		1,580	1,655	1,389	1,590	2,006		2,191	2,211	2,413	3,123	
.....1,000 lbs.		829	771		855	1,133						

21 Less than 500

22 Included with wool

23 1921 only

24 Average for years 1911-1914

25 Average for years 1924-25

26 Average for years 1923 to 1925

## No. 538.—GENERAL IMPORTS OF MERCHANDISE BY COMMODITY GROUPS AND ARTICLES—Continued

Group and article	Quantity						Value in thousands of dollars					
	1910-1914	1921-1925	1925	1926	1927	1928	1910-1914	1921-1925	1925	1926	1927	1928
<b>GROUP 3. TEXTILES—Continued</b>												
<b>K. Wool manufactures—Continued</b>												
<b>Woven fabrics, etc.—Continued</b>												
Woolens—												
Weighing not over 4 oz 1,000 sq. yds. per sq. yd. . . . .	2 4,220	4,348	4,150	6,263	4,055			2 1,918	2,092	1,836	2,609	1,688
Weighing over 4 oz 1,000 sq. yds. . . . .	2 885	830	830	1,299	888							
Woolen fabrics, etc.—Continued	2 15,666	14,812	13,704	13,901	11,769			2 17,246	17,353	16,767	16,992	14,169
Woolen fabrics of wool . . . . .	2 9,422	8,723	8,647	8,916	7,799			1 72	18	50	206	120
Woolen fabrics of wool . . . . .	2 34	7	18	42	24							
Carpet and rugs—	1,042	2,385	2,939	3,292	3,282	3,185	4,320	13,149	18,333	21,099	21,503	21,454
Oriental, Axminster, Savonnerie, Aubusson, oriental weave, and Chenille Axminster . . . . .	1 2,187	2,182	2,589	2,589	2,381	2,229		1 14,423	16,764	19,328	18,908	18,413
All other . . . . .	1 610	757	703	703	900	956		1 1,389	1,569	1,771	2,595	3,041
Wearing apparel—							2,137	9,610	13,081	14,944	16,869	18,416
Knit goods—												
Hosiery . . . . .	1 506	529	372	384	384	399		1 3,188	3,695	2,674	2,539	2,331
Gloves and mittens . . . . .	1 183	184	162	162	162	140		1 471	413	340	343	283
Knit outer and underwear . . . . .	1 310	259	286	455	455	505		1 1,103	1,196	1,213	2,017	2,360
Hats and hat bodies of wool-felt . . . . .				1,758	1,758	5,350					3,152	8,229
Hats bodies of wool-felt . . . . .	1 1,775	2,778	4,375			2,606		1 5,738	7,777	10,416		7,420
Hats of wool-felt . . . . .						4,898						809
Hats of wool-felt . . . . .						244						
All other wearing apparel . . . . .					3,462	432					8,848	5,014
Wool laces, embroideries, etc. . . . .							2,480	2 730	310	215	297	421
Other manufactures of wool . . . . .							5,414	2 173	1,738	2,238	3,036	2,565
<b>L. Hair and manufactures, n. e. s.</b>								8,944	7,310	7,302	6,065	4,828
Human hair—								800	1,046	1,261	1,223	838
Raw, uncleaned . . . . .	1 531	2,457	3,128	2,786	2,786	2,292	1,962					
Cleaned and drawn, not manufactured . . . . .		31	3	5	5	3					8	8
Nets and netting of human hair . . . . .			806	553	553	484	2 415	2 4,585	1,059	983	570	452
Other manufactures of human hair . . . . .							1,997	2,336	2,646	2,618	2,558	136
Horse hair, tails, or manes . . . . .	4,811	4,809	4,703	4,670	4,757	4,099						
Cattle body hair . . . . .							1,040	1,152	2,055	2,030	1,411	432
Other animal hair, n. e. s. . . . .	11,799	9,275	17,005	17,719	8,127	3,410						
Manufactures of horse and cattle hair . . . . .		2 665	730	758	263	195		2 120	178	220	106	60



<b>M. Silk, unmanufactured</b>										
Coronets.....	1,000 lbs.	28, 870	62, 030	76, 795	77, 966	86, 345	88, 269	79, 503	356, 287	408, 386
Raw silk.....	do.	23, 730	52, 119	63, 754	66, 422	74, 005	75, 489	77, 038	348, 123	396, 286
Waste.....	do.	4, 781	9, 735	12, 036	11, 133	12, 281	12, 725	2, 406	8, 000	12, 006
<b>N. Silk manufactures</b>										
Spun silk or chappe silk yarn.....	1,000 lbs.	3, 280	1, 383	1, 383	582	873	623	29, 870	40, 941	36, 719
Singles.....	do.		1 243	77	92	81	49	6, 715	4, 385	5, 130
Advanced.....	do.		1 1, 109	1, 305	490	792	574	1 642	1 642	213
Belting cloths.....	do.		1 21	23	25	24	30	251	1 3, 927	4, 917
Fabrics, broad, except pile fabrics.....	do.		2 959	2, 746	3, 739	3, 526	3, 443	9, 068	17, 580	14, 255
All silk—										
In the gray.....	do.		1 1, 575	1, 341	2, 278	2, 123	2, 072		18, 950	6, 545
Dyed, colored, advanced.....	do.		1 782	1, 091	970	989	1, 120		15, 435	6, 887
Mixed, chief value silk.....	do.		1 272	314	401	414	236		1 831	823
Plushes, velvets, and chenilles.....	do.			436	428	708	1, 048			
Voile or plush ribbon.....	do.			129	131	110	72	2, 664	4, 029	2, 560
Silk ribbons not over 12 inches wide.....	do.			89	63	54	20	1, 191	484	377
Banding, belting, and other narrow fabrics.....	do.							567	186	117
<b>Silk wearing apparel</b>										
Product of Philippine Islands.....								4, 620	6, 310	6, 889
Shirts, collars, and clothing, not knit.....								1	16	8
Embroidered, etc., or of lace.....								4, 619	5, 404	3, 847
Knit or crocheted.....										268
<b>Silk handkerchiefs and mufflers—</b>										
Hemmed or not hemmed.....	1,000 doz.		483	534	522	631	477			
Embroidered or of lace.....	do.			117	147	195	296			
<b>Silk laces, embroideries, etc.</b>										
Laces and lace articles.....								4, 003	4, 722	3, 532
Veils and veilings.....									1 1, 351	1, 108
Nets and nettings.....									1 380	64
Embroideries.....									1 583	415
All other.....									1 1, 281	1, 341
All other manufactures of silk.....								1, 706	1, 334	1, 382
<b>O. Artificial silk (rayon) manufactures</b>										
Waste and yarns made from waste.....	1,000 lbs.		1 4, 639	5, 529	4, 528	2, 269	2, 748	2, 667	8, 793	13, 118
Yarns, threads, and filaments.....	do.		7 2, 053	7, 001	10, 063	16, 236	12, 734		1 1, 325	1, 828
Braids.....	do.			455	339	228	219		5, 440	8, 171
All other manufactures.....								11 1, 421	2, 059	2, 057
<b>P. Miscellaneous textile products</b>										
Linoleum, linoleum.....	1,000 sq. yds.			826	755	622	502	2, 366	5, 141	7, 802
Other linoleum and floor oil cloth.....	do.			799	746	470	227	1, 905	1, 271	787

<sup>1</sup> Average for years 1911-1914.

<sup>2</sup> Average for years 1921 and 1924-25.

<sup>3</sup> Average for years 1923-1925.

<sup>4</sup> Average for years 1924-25.

<sup>5</sup> Data prior to Sept. 22, 1922, are "manufactures of hair."

<sup>6</sup> Average for years 1911-1914.

<sup>7</sup> Average for years 1921 and 1924-25.

<sup>8</sup> Average for years 1923-1925.

<sup>9</sup> Average for years 1924-25.

## No. 505.—GENERAL IMPORTS OF MERCHANDISE BY COMMODITY GROUPS AND ARTICLES—Continued

Group and article	Quantity					Value in thousands of dollars				
	1910-1914	1921-1925	1925	1926	1927	1928	1921-1925	1925	1926	1927
<b>GROUP 3. TEXTILES—Continued</b>										
<b>P. Miscellaneous textile products—Continued</b>										
Treuing cloths.....1,000 sq yds.....		2,060		2,755	2,047	2,198	1,454	1,094	1,390	1,104
Other coated, filled, or waterproof fabric do.....		578		1,215	1,610	2,505	341	341	283	426
Fur-felt hats.....1,000 hats.....	7,544	287	539	893	1,138	1,529	712	1,406	2,232	2,451
Artificial flowers, etc., and manufactures.....							3,255	3,142	2,975	3,798
<b>GROUP 4.—WOOD AND PAPER</b>										
<b>Total.....</b>							79,851	349,008	372,763	385,572
<b>A. Wood, unmanufactured.....</b>										
Cedar.....1,000 ft. b m.....		125,990	92,914	69,832	23,941	25,958	9,588	14,879	16,882	18,046
Logs of fir, spruce, or western hemlock do.....		191,916	119,322	107,253	121,540	50,644	2,213	1,675	1,113	405
Logs and timber (except cabinet woods) do.....	159,242				108,780	80,580	2,125	2,180	2,145	2,011
Cabinet woods in the log.....do.....										
Product of Philippine Islands.....do.....		\$ 928	1,247	2,043	7,418	5,116	\$ 54	58	108	345
Manogany.....do.....	53,684	54,074	73,224	68,431	72,828	48,041	3,840	5,767	5,309	5,897
Cedar, Spanish \$.....do.....	17,776	9,277	9,965	6,577	4,231	883	883	625	843	272
All other.....do.....		\$ 7,143	7,517	8,498	7,754	8,249	1,066	771	883	951
Railroad ties.....do.....		1,036	1,145	1,237	1,095	878	1,691	797	1,007	889
Rattan, unmanufactured.....1,000 lbs.....		14,154	13,355	11,622	8,896	8,777	992	1,090	969	750
Poles—telegraph, telephone, etc.—thousands.....		1,621	693	791	797	828	2,737	2,959	3,294	3,319
Brier, ivy, or laurel root.....1,000 lbs.....		\$ 4,852	5,570	4,696	4,313	4,398	\$ 294	458	300	349
Other unmanufactured wood.....							2,101	1,442	1,513	1,640
<b>B. Wood semimanufactures—sawmill products</b>										
Boards, planks, and deals—M ft.....		1,576,375		1,776,506	1,683,785	1,372,405				
Hardwood.....do.....	970,039	(1,754,837	80,272	91,545	72,951	58,443	17,571	50,451	48,776	43,180
Cabinet woods, sawed—do.....		10,946	25,097	26,347	32,931	33,881	48,765	4,624	4,998	4,286
Other cabinet woods, sawed do.....	985	5,239	6,222	4,774	4,960	3,675	52	1,352	1,225	1,634
Other lumber.....do.....							379	407	365	388
Laths.....millions.....	665	1,475	1,909	1,932	1,705	1,293	21	10,608	9,748	7,320
Shingles.....do.....	675	2,430	2,513	2,492	1,945	2,068	8,627	9,992	8,907	7,657
Pickets and palings.....thousands.....		\$ 45,788	68,311	55,133	57,154	50,230	\$ 478	736	561	665
<b>C. Wood manufactures.....</b>										
Barrels, boxes, and shooks.....thousands.....		1,564	1,312	3,293	1,992	2,122	4,907	9,655	10,483	10,615
							1,365	390	284	354

		57,359	40,110	14,062	3,546	3,146		24	19	7	2	1
Baskets—		13,782	10,700	13,285	11,773	12,021		1,780	1,212	1,280	1,108	976
Product of Philippine Islands.....	number, thousands											
All other baskets.....	thousands											
Char cane or reed and manufactured rattan		15,163	4,906	4,746	4,063	3,606	471	622	598	667	420	394
Oser or willow for basket making.....	1,000 lbs.	11,908	1,418	1,330	829	506		1,128	104	84	41	23
Manufactures of iatani, bamboo, osier, or willow (except furniture).....								574	491	460	210	185
Walking canes, handles, and sticks for umbrellas, etc.								249	247	278	278	287
Furniture of iatani, reed, bamboo, grass, osier, willow, or fiber.									486	421	357	221
Other furniture of wood.								2,479	2,801	3,523	4,631	5,049
Manufactures of wood, product of Philippine Islands.....												
Other manufactures of wood.								38	33	34	84	84
D. Cork and manufactures.								3,846	3,147	3,561	3,122	3,006
Bark or wood, unmanufactured.....	1,000 lbs.	56,824	76,430	126,355	124,001	87,798	5,796	4,689	5,379	9,704	9,909	9,988
Waste shavings, etc.		140,960	137,229	179,347	99,090	141,872	3,535	1,398	1,454	2,969	3,063	3,067
Disks, walers, and washers.....	do.	428	780	1,109	734	522		344	1,541	742	3,312	3,141
Cork insulation.....	do.	1 20,371	24,734	38,506	50,403	43,866		1,764	979	1,968	3,100	441
Cork stoppers.....	do.		390	543	412	499		10 390	300	429	630	2,226
All other manufactures of cork.....							2,260	661	341	724	268	390
E. Paper base stocks.								94,219	118,795	121,508	113,832	112,286
Pulp woods.....	1,000 cords.	1,248	1,483	1,384	1,567	1,546	27,680	13,607	16,180	14,176	16,484	16,157
Rough spruce.....	do.	286	321	367	431	461		2,966	3,220	3,633	4,240	4,575
Other rough.....	do.											502
Peeled spruce.....	do.	844	1,019	928	1,074	705	6,309		10,238	9,438	11,014	7,749
Other peeled.....	do.											2,529
Ressed spruce.....	do.	117	143	89	91	50		1,569	1,671	1,105	1,231	742
Other ressed.....	do.											57
Wood pulp.....	tons of 2,240 lbs.	1,165,276	1,465,370	1,645,904	1,496,222	1,566,931	14,631	67,002	81,884	91,231	85,842	83,494
Mechanically ground wood pulp.....	do.	229,222	295,618	271,213	219,285	222,499	3,199	7,183	8,517	8,278	9,062	3,443
Subbute wood pulp—												
Unbleached.....	do.	220,468	579,284	628,923	613,856	640,660	26 7,791	24,924	31,542	37,082	34,263	32,587
Bleached.....	do.	72,993	286,976	294,818	311,130	307,926	27 3,641	18,645	22,528	23,678	24,225	23,368
Soda pulp.....	do.							76				
Sulphite wood pulp, unbleached (Kraft pulp).....	tons of 2,240 lbs.	249,746	306,073	334,803	341,162	381,256		15,270	18,257	21,193	20,684	21,171
Sulphate wood pulp, bleached.....	do.	16,708	17,419	16,147	10,788	14,590		1,004	990	1,049	709	895
Other pulp.....	do.	11,695	2,123	3,857	3,348	6,728		1,109	152	256	244	455
Rags for paper stock.....	1,000 lbs.	370,293	872,432	476,764	398,121	439,893		8,318	15,838	10,373	7,647	8,195
Waste bagging, waste paper, etc.....	do.	1,192,179	192,872	113,922	108,793	148,766		1,175	2,274	2,395	1,429	1,978
Old rope and all other paper stock.....	do.	118,277	71,199	79,036	64,978	70,724		4,162	3,576	3,075	1,985	2,065

\* Data are "chemical wood pulp, unbleached."  
 \* Data are "chemical wood pulp, bleached."

§ Average for years 1922-1925

¶ 1925 only

‡ 1921 only

§ "Cedar," prior to 1923.

1 Average for years 1923-1925

2 Average for years 1924-25

3 Average for years 1921 and 1924-25.

4 Average for years 1912-1914.

## No. 538.—GENERAL IMPORTS OF MERCHANDISE BY COMMODITY GROUPS AND ARTICLES—Continued

Group and article	Quantity						Value in thousands of dollars					
	1910-1914	1921-1925	1925	1926	1927	1928	1910-1914	1921-1925	1925	1926	1927	1928
GROUP 4. WOOD AND PAPER—Continued												
F. Paper and manufactures												
Printing paper—												
Standard newsprint.....	238,212	2,374,511	2,896,850	3,701,350	3,974,129	4,314,333	10,680	105,239	119,201	139,499	149,385	156,407
All other, n. e. s.....		13,335	16,611	16,376	10,420	7,339	4,804	{ 90,895	103,717	123,982	131,489	139,433
Grease-proof and waterproof papers.....		2,306	2,279	2,227	1,622	1,262		{ 1,637	809	827	612	343
Kraft wrapping paper.....			14,420	8,868	12,198	10,762		1,249	289	383	262	232
All other wrapping paper.....		46,975	5,550	5,556	12,914	16,224	7,874	1,995	606	391	518	460
Writing, letter, drawing, etc., papers.....		13,139	3,220	3,761	3,419	3,108		1,672	270	367	337	302
Surface-coated.....		1,299	1,565	2,068	2,235	2,371		314	745	928	885	807
Tissue, copying, etc., paper.....		12,385	2,714	2,882	3,231	3,569	589	11,022	1,164	1,405	1,393	1,104
Pulp boards in rolls.....		65,850	72,695	70,765	60,128	52,770		1,786	1,913	1,718	1,423	1,053
Paper boards, pulp board and cardboard.....								1,735	746	916	827	497
Cigarette paper, cigarette books and covers.....												
Hanging paper (wall paper).....		111,275	10,651	8,276	14,685	11,689	8,807	3,362	2,935	2,183	4,292	3,214
Duplex decalcomania, not printed.....		110,022	5,516	3,529	2,356	2,164	11,900	561	563	597	634	667
Paper boxes.....		1,447	430	690	702	626		123	112	170	159	142
Pulp or papier-mâché and manufactures of, n. e. s.....		2,080	2,329	2,104	2,593	2,804		2,264	1,350	965	1,447	1,789
All other paper and manufactures.....										405	339	436
GROUP 5.—NONMETALLIC MINERALS												
Total.....							3,720	3,423	3,453	3,507	3,493	3,697
A. Coal and related fuels												
Anthracite coal.....	4,416	186,362	341,870	726,746	106,277	343,488	89,306	230,110	283,019	301,894	292,837	285,153
Bituminous coal, shale, and lignite.....							4,727	12,380	7,549	12,273	5,098	6,513
Bituminous coal, 1,000 tons of 2,240 lbs.....	1,525	1,046	537	475	491	488	17	1,560	3,213	6,397	8,887	2,391
Bituminous coal, shale, and lignite.....		1,236	85	92	71	110		9,804	2,634	2,304	2,447	2,398
Bituminous coal and shale.....		1,572	452	383	420	378	4,240	87,378	434	489	346	500
Coke.....	110,663	88,327	179,981	254,061	150,767	131,876	470	13,199	2,200	1,816	2,101	1,898
Charcoal, briquets, etc.....							881	1,009	2,174	1,372	1,373	1,133
								192	94	797	373	391
B. Petroleum and products												
Crude petroleum.....	7,304	94,867	61,524	60,382	58,383	79,767	6,262	90,793	107,984	124,556	113,434	132,842
Refined petroleum oil products.....								68,012	75,407	70,308	78,009	90,473
Topped, including fuel oils.....		19,545	18,394	20,902	13,281	11,701	5,868	22,214	31,383	44,597	33,638	40,943
Top and other unfinished distillates.....		9,673	12,245	14,432	8,124	7,268		14,225	16,908	10,176	8,485	8,485
Gasoline, naphtha, and other finished light products.....			210	823	91	20		11,356	2,633	2,633	838	34
		2,840	3,813	5,540	5,002	4,108		10,617	15,078	24,553	22,773	31,516

										185	133	236	248	716
										1 190	286	267	103	192
										566	1,003	652	1,187	1,426
										5,321	9,327	9,562	8,196	7,349
										1,220	1,320	1,792	2,531	1,621
										333	483	684	880	805
										598	878	981	874	804
										1 253	233	342	303	365
										198	309	280	286	284
										2,382	5,814	5,125	2,966	3,091
										1 368	291	358	366	359
										18,989	17,380	20,875	17,083	15,240
										20 2,342	2,409	3,191	1,226	1,113
										1 613	535	548	392	561
										8,246	7,278	8,852	4,310	3,355
										606	1,727	15,843	332	428
										15,409	17,257	20,064	248	248
										1,377	20,064	20,064	200	208
										11 1,125	1,859	2,039	3,751	2,905
										15,127	16,930	18,424	1,865	1,885
										15,741	16,930	18,424	1,865	1,885
										1 2,683	1,062	1,025	968	1,775
										380	532	537	548	548
										3,034	1,183	1,941	1,466	1,393
										12,689	21,663	26,919	25,667	23,598
										302,693	274,472	3,484	2,637	2,903
										55,881	53,906	830	532	585
										270,129	332,022	353,746	353,746	353,746
										59,329	53,912	85,870	85,870	85,870
										11 242,143	118,179	118,179	118,179	118,179
										11 242,143	118,179	118,179	118,179	118,179
										11 242,143	118,179	118,179	118,179	118,179

<sup>1</sup> Average for years 1912-1925.  
<sup>2</sup> Average for years 1924-25.  
<sup>3</sup> Average for years 1913-14.

<sup>4</sup> Average for years 1912-1914.  
<sup>5</sup> Average for years 1922-1925.  
<sup>6</sup> Average for years 1911-1914.

<sup>7</sup> Average for years 1912-1925.  
<sup>8</sup> Average for years 1924-25.  
<sup>9</sup> Average for years 1913-14.

<sup>10</sup> Average for years 1912-1914.  
<sup>11</sup> Average for years 1922-1925.  
<sup>12</sup> Average for years 1911-1914.



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<sup>19</sup> Average for years 1922-1925  
<sup>20</sup> Average for years 1911-1914  
<sup>21</sup> "Hotel ware" is included with "domestic or household ware" prior to Jan. 1, 1923.  
<sup>22</sup> "Rough uncut diamonds" includes "glaziers', engravers', and miners' diamonds."

8 Average for years 1922-1925

1. Average for years 1911-1914

30 "Hotel ware" is included with

а "Колга ищет диаметр"

1 Average for years 1923-1925

<sup>2</sup> Average for years 1924-25

3 Average for years 1921 and 1922.

7 Average for years 1912-1914.

! A veras

2 Average

### 3 Average

**7. Avera**

## No. 538.—GENERAL IMPORTS OF MERCHANDISE BY COMMODITY GROUPS AND ARTICLES—Continued

Group and article	Quantity						Value in thousands of dollars					
	1910-1914	1921-1925	1925	1926	1927	1928	1910-1914	1921-1925	1925	1926	1927	1928
<b>GROUP 8.—METALS AND MANUFACTURES, EXCEPT MACHINERY AND VEHICLES</b>												
Total												
A. Iron ore.....1,000 tons of 2,240 lbs.	2, 187	1, 691	2, 191	2, 555	2, 691	2, 453	153, 302	243, 257	313, 164	364, 027	398, 350	315, 654
B. Iron and steel semimanufactures												
Fig iron.....tons of 2,240 lbs.	170, 144	285, 772	441, 425	445, 773	132, 568	140, 694	13, 740	11, 711	15, 483	16, 423	10, 008	10, 691
Iron and steel scrap.....do	46, 076	102, 632	90, 815	86, 726	60, 209	63, 314	5, 464	7, 009	7, 951	7, 709	2, 254	2, 232
Steel bars.....1,000 lbs.		21, 262	131, 722	231, 781	204, 954	191, 172	555	1, 498	1, 261	1, 091	2, 759	1, 005
Bar iron.....do	62, 806	15, 153	26, 239	12, 600	9, 467	8, 472	1, 221	20, 164	2, 874	4, 413	4, 091	3, 847
Wire rods.....do	34, 404	9, 600	17, 892	22, 568	40, 283	43, 227	384	538	538	281	193	158
Boiler or other plate iron or steel sheets.....do		1, 414	1, 833	11, 076	9, 087	17, 977	757	316	539	692	943	1, 122
Steel ingots, blooms, slabs, etc.....do		55, 821	60, 661	69, 049	30, 625	48, 023		189	144	142	126	252
Sheets of iron or steel, skelp, saw plates, and steel, n. e. s.....1,000 lbs.	70, 001	5, 371	8, 204	23, 903	36, 225	51, 016	3, 262	2, 130	1, 769	1, 324	706	909
Tin plates,terneplates, and taggers tin.....do	9, 068	6, 537	855	4, 337	2, 333	2, 004	417	251	202	563	773	1, 012
	66, 744						2, 024	373	108	237	192	153
C. Steel-mill products, manufactures							1, 680	7, 707	13, 811	17, 732	18, 753	17, 494
Structural shapes and building forms												
Rails for railways.....1,000 lbs.	19 18, 223	62, 635	173, 131	271, 265	382, 542	366, 826	18 274	1, 232	2, 863	3, 923	5, 532	5, 271
Pipes and tubes.....do	13, 825	71, 059	82, 593	123, 675	34, 618	31, 401	144	1, 012	1, 051	1, 449	423	432
Cast-iron pipe.....do		1 106, 271	185, 614	267, 485	286, 485	238, 088		1 2, 790	5, 726	5, 612	7, 261	5, 949
Other pipes and tubes.....do			187, 877	187, 877	133, 152	136, 177				2, 461	2, 600	1, 725
Wire and manufactures—			69, 807	69, 807	112, 333	101, 911				3, 151	4, 652	4, 123
Barbed wire.....do				6, 844	9, 012	12, 650				185	242	329
Round wire.....do		18, 276	9, 081	9, 088	8, 879	10, 535		1 792	842	799	682	672
Telegraph, telephone, and other insulated wire.....do												
Flat-wire and steel strips.....1,000 lbs.		1 4, 300	4, 906	8, 240	5, 698	5, 745		1 871	410	221	12	26
Card clothing.....1,000 sq ft.		1 822	275	241	313	279		1 2, 239	2, 438	2, 076	1, 709	1, 770
Wire rope and strand.....1,000 lbs.						3, 751		1 498	448	383	514	423
Other manufactures of wire.....do												
Nails.....1,000 lbs.		13, 189	6, 180	11, 995	12, 663	22, 700	1, 267	663	453	1, 066	976	796
Castings and forgings.....do		1 6, 378	6, 682	6, 133	6, 845	7, 128		1 117	203	348	394	677
Tanks, drums, or vessels for gas or liquids.....do								1 402	308	330	386	469
D. Iron and steel, advanced manufactures												
Cutlery—												
Razors and parts.....thousands		7, 219	763	2, 073	41, 730	77, 578	8, 604	8, 343	5, 470	6, 926	7, 190	8, 833
							7 415	354	198	267	429	602



Scissors, shears, and clippers.....do.....	1,886	1,943	1,612	1,210	7,642	582	350	343	323	269
Pen, pocket, and other folding-blade knives	4,562	4,388	4,498	4,305	7,932	602	273	280	233	207
Other cutlery.....do.....	1,378	1,220	1,293	1,080	939	412	404	499	457	353
Table, kitchen, and other ware, glazed	1,983	814	808	767	766	300	209	306	228	107
Tools.....do.....	996	900	918	728	479	1,531	522	614	721	960
Needles, hand-sewing and darning <sup>a</sup> , millions			635			1,069	1,040	1,061	799	855
Other needles.....do.....						380	229	266	260	192
Loop or band iron or steel for baling										1,343
Other iron or steel manufactures, n. s. p. f.				70,009	5,215	4,206	2,245	3,321	3,751	3,523
All other iron and steel manufactures, n. s. p. f.					3,067	13,299	18,015	20,783	16,440	13,888
<b>E. Ferro-alloys.</b>										60
Manganese ore—										
Product of—										
Cuba <sup>b</sup> (Gross weight.....tons of 2,240 lbs.	11,495	12,745	8,976	3,180		166	253	225	142	5,336
Other manganese ore (manganese content)	295,757	287,205	304,419	205,252	1,675	4,821	8,005	10,847	8,345	4,806
Other manganese ore (manganese content)	61,510	67,433	34,018	17,550	11,563	5,244	6,578	4,138	3,405	3,705
Other manganese ore (manganese content) <sup>a</sup>	113,752	149,739	222,360	216,302	521	965	1,208	1,705	1,749	1,096
Chromium ore or chromite.....do.....	11,994	1,511	1,052	1,605		1,185	143	124	59	636
Perchromium, chromium metal, and chromium vanadium.....do.....	22,683	10,265	17,367	9,953	( <sup>a</sup> )	819	555	1,386	1,035	573
Ferrosilicon (silicon content).....do.....	11,262	3,090	3,442	2,780	7,232	349	735	871	308	50
Tungsten and alloys (tungsten content).....do.....		2,114	1,614	403		541	13	944	661	10
Vanadium ore.....do.....		453	6,199	894	287				20	515
Other ores of ferro-alloying metals.....do.....			20			281		573	825	
Other ferro-alloying metals.....do.....										
<b>F. Nonferrous metals, except precious.</b>										
Aluminum.....do.....					111,993	178,054	233,006	272,214	247,412	240,138
Bauxite, crude.....do.....	21,467	353,696	350,180	350,111	2,454	8,673	12,086	13,690	17,892	10,112
Metal, scraps, and alloy.....do.....	7,19,242	43,410	72,189	37,896	7,931	990	1,549	1,157	1,572	1,354
Manufactures—										
Plates, sheets, bars, etc.....do.....		102	400	26		46	37	79	79	11
Hollow ware.....do.....		243	142	123		1,172	99	66	589	751
Other manufactures.....do.....					7,807		154	250		
Copper <sup>a</sup> .....do.....	368,863	597,949	718,328	737,074	47,845	77,311	84,270	99,742	84,963	93,167
Copper ores, concentrates and matte.....do.....	92,898	163,329	168,015	148,305	10,743	16,300	20,287	19,064	18,905	16,735
Ores (copper content).....do.....	68,469	80,168	90,728	104,192	7,705	10,905	13,582	13,452	10,757	11,589
Concentrates (copper content).....do.....		41,863	68,168	39,473		5,140	6,492	6,332	8,107	4,861
Regulus, coarse, metal, and cement copper (copper content).....do.....	23,429	5,965	1,393	2,640	3,083	755	213	261	131	285

<sup>a</sup> Average for years 1923-1925.<sup>b</sup> Average for years 1921 and 1925.<sup>c</sup> "Wire rope, insulated wire, etc." prior to 1926<sup>d</sup> "Nails and screws" prior to 1926<sup>e</sup> "Hand-sewing, darning, and shoe machine" prior to 1922.<sup>f</sup> Gross weight prior to Sept. 22, 1922.<sup>g</sup> Included with "Pig iron", in 1910-1914.<sup>h</sup> Not including pounds of "Copper manufactures, n. s. s."

## No. 538.—GENERAL IMPORTS OF MERCHANDISE BY COMMODITY GROUPS AND ARTICLES—Continued

Group and article	Quantity					Value in thousands of dollars				
	1910-1914	1921-1925	1926	1927	1928	1910-1914	1921-1925	1926	1927	1928
<b>GROUP 6.—METALS AND MANUFACTURES, EXCEPT MACHINERY AND VEHICLES—Continued</b>										
<b>F. Nonferrous metals, except precious—Continued.</b>										
<b>Copper—Continued</b>										
Unrefined, black, blister, and converter copper, in pigs, bars, etc. . . . .	343,988	379,324	443,798	438,594	543,190		44,850	48,870	51,954	67,505
Refined copper . . . . .	104,309	99,774	170,566	103,279	84,731	37,016	14,918	13,881	13,105	12,684
Old and clippings for remanufacture . do . . . . .	9,324	10,425	11,002	7,478	10,633		963	1,189	1,164	969
Composition metal, copper chief value do . . . . .	1,322	107	431	58	216		176	112	15	32
Copper manufactures, n e s . . . . .						86	113	81	195	222
Brass, and bronze, and manufactures . . . . .						1,443	4,889	2,153	2,978	4,370
Old and clippings, for remanufacture . . . . .								2,310		
Brass manufactures . . . . .	6,150	49,147	8,922	7,985	12,151	684	3,764	773	556	1,015
Bronze manufactures . . . . .						764	528	645	1,219	1,941
Lead (lead content) <sup>18</sup> . . . . .	102,834	222,701	310,722	394,649	314,025	8,509	11,411	17,398	17,886	15,505
Ore, matte, and bullion—										
Ore and matte (lead content) . . . . .	44,186	57,975	116,233	81,276	51,830	871	2,825	5,163	4,643	2,885
Bullion or base bullion (lead content) . . . . .	115,198	141,254	156,371	236,567	236,935	2,509	6,796	10,458	11,737	11,563
Pigs, bars, old and scrap <sup>19</sup> . . . . .		12,768	20,034	4,935	1,323			1,066	348	96
Babbitt metal, solder, etc. (lead content) <sup>40</sup> . . . . .	3,450	30,088	2,271	1,216	880	111	1,506	99	548	570
Manufactures of lead, n. e. s. (except type metal) . . . . .										
Type metal and antimonial lead . . . . .	106,000	6,009	8,620	593	3,901	18	84	149	164	193
Antimonial lead . . . . .	14,817	4,310	6,993	652	3,087		1,332	463	65	193
Nickel . . . . .										
Ore and matte . . . . .	36,602	8,195	14,635	10,744	18,589	4,998	6,232	7,376	8,903	14,383
Nickel alloy in pigs and other forms . do . . . . .		31,907	29,379	29,220	48,996	4,928	820	1,063	1,303	1,470
Nickel oxide . . . . .								6,541	7,857	12,446
Nickel in bars, plates, sheets, etc., and manufactures . . . . .							4,411	177	241	233
Tin—										
Ore (tin content) . . . . .	5,812	191	303	122	130			95	62	294
Bars, blocks, pigs, etc. . . . .	106,134	171,686	172,836	169,357	174,654	41,511	56,522	98	187	79
Zinc—										
Ore (zinc content) . . . . .	40,161	10,537	29,252	19,025	3,409	777	462	1,520	100,805	86,933
Black, pigs, etc., and old . . . . .	12,350	2,745	48	115	6	625	117	2	766	169

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Zinc dust and other manufactures.											141
Antimony—											97
Ore (gross weight)	1,000 lbs.	2,718	5,108	7,023	7,824	205	144	29	44	97	141
Ore (antimony content)	do	1,127	3,180	3,965	4,369		33	47	291	278	313
Needle, liquidated, regulus, or metal	do	18,079	21,818	24,422	22,698	723	1,086	2,513	3,795	2,516	1,820
Cobalt ore and metal	do	11,949	210	542	408	11,55	352	410	877	844	1,178
Gold and silver sweepings	do					125	429	235	216	190	1,353
Quicksilver or mercury	1,000 lbs.	11,395	1,769	2,146	1,169		1,915	1,322	1,971	2,189	1,572
Other ores, metals, and alloys, n. e. s.							596	656	710	656	935
Manufactures of metals, n. e. s.							6,075	6,801	7,664	6,221	4,083
G. Precious metals, jewelry, and plated ware, except gold and silver in ore, bullion, and coin.											19,100
Platinum	oz. troy	1,96,244	106,478	114,968	128,544	7,644	17,188	20,464	24,072	22,478	7,683
Ores of platinum metal (platinum content)	oz. troy						8,400	11,301	11,804	11,188	49
Grains, nuggets, sponge or scrap	do			1,291	686				125	7,451	5,265
Ingot, bars, sheets or plates, etc.	do			87,162	78,399				8,683	2,996	2,349
Platinum metals and native combinations thereof—				26,985	29,362						672
Iridium	oz. troy			3,305	4,212				412	520	439
Osmium and osmiridium	do			6,141	6,095				659	398	408
Palladium	do	7,501	8,296	8,258	6,251	439	1,424	483	460	223	139
Rhodium and ruthenium	do			2,120	2,977			285	117	79	3,921
Jewelry	1,000 pieces.	1,6,870	4,126	5,971	8,356	1,333	1,631	1,183	1,540	2,087	1,569
Metal articles for personal use and adornment.							1,769	818	1,506	2,389	1,092
Manufactures of gold and silver, n. e. s.—											1,638
Lame and lath, tinsel wire, bullion and threads	1,000 lbs.	1,629	2,261	1,675	1,169	1,566	4,338	2,415	2,887	1,614	1,630
Brads, fabrics, laces, etc.							934	1,147	1,005	1,376	29,75
All other, including plated articles											2,770
GROUP 7.—MACHINERY AND VEHICLES						12,480	17,768	19,176	26,912	27,517	1,077
Total											1,359
A. Electrical machinery and apparatus											1,16
Electric lamps—Incandescent—	thousands.										1,538
Carbon filament	do	16,224	29,589	28,201	23,298	579	565	1,120	1,259	1,083	1,077
Metal filament	do	11,323	8,292	6,112	4,118	481	495	366	410	197	11
Other	do		10	19	16	33	142	8	6	11	16
Other electrical machinery and apparatus							1,895	939	845	1,772	1,538
B. C. D. Industrial, office, and printing machinery											18,713
Steam and internal-combustion engines and repairs											903
Metal-working machine tools	1,000 lbs.	1,852	1,916	2,079	1,802		1,641	23	76	279	569

19 1925 only

20 Average for years 1922-1925

21 Average for years 1924-25

22 Average for years 1911-1914.

23 Less than 500.

24 Not including pounds of "lead manufactures, n. e. s."

25 "Pigs and bars" prior to Jan 1, 1927.

26 "Scrap lead, Babbitt metal, solder, etc.," prior to Jan 1, 1927.





## No. 538.—GENERAL IMPORTS OF MERCHANDISE BY COMMODITY GROUPS AND ARTICLES—Continued

Group and article	Quantity						Value in thousands of dollars					
	1910-1914	1921-1925	1925	1926	1927	1928	1910-1914	1921-1925	1925	1926	1927	1928
<b>GROUP 8.—CHEMICALS AND RELATED PRODUCTS—Cont.</b>												
<b>C. Industrial chemicals—Continued.</b>												
Potassium compounds—Continued.												
Hydroxide (caustic potash) <sup>1/2</sup> .....1,000 lbs.	8,397	12,065	12,257	12,969	14,762	11,648	334	675	734	771	916	686
Nitrate, crude, or saltpeter tons of 2,240 lbs.	3,820	4,336	8,396	9,416	4,309	9,674	253	274	448	527	228	376
Bicarbonate, crude, or wine lees												
.....1,000 lbs.	* 28,058	20,054	24,666	25,670	24,906	12,890	2,647	1,436	1,660	1,791	2,289	1,331
Cream of tartar.....do		1,932	338	239	24,291	139		1,108	481	87	57	32
Chlorate and perchlorate.....do		* 9,660	11,834	12,537	13,392	13,130		* 395	461	460	496	481
Other potassium compounds, n. e. s. <sup>1/2</sup> .....do	n 5,029	12,152	10,256	11,409	9,817	12,040	n 471	830	625	609	500	581
Sodium compounds—												
Cyanide.....do		22,802	30,212	31,894	32,599	37,577		1,982	2,600	2,558	2,608	2,990
Barrocyanide (Yellow prussiate).....do		11,979	1,637	815	1,737	1,625		1,190	115	55	143	136
Nitrite.....do		13,745	1,971	1,927	292	108		1,156	73	70	11	4
All other, n. e. s. <sup>1/2</sup> .....do							394	1,231	728	1,313	1,602	1,725
Radium salts.....do											3,394	566
All other industrial chemicals.....do							12,152	6,822	3,847	3,809	4,944	5,116
							2,095	3,080	3,235	3,391	3,755	3,765
<b>D. Pigments, paints, and varnishes.</b>												
Mineral earth pigments—												
Iron oxide and iron hydroxide pigments.....1,000 lbs.				27,987	24,050	25,491				667	588	607
Other <sup>1/2</sup> .....do			20,139	20,846	20,872	21,469		1,280	275	390	448	433
Others and sienas.....do								1,323	365	451	594	598
Chemical pigments—												
Lithopone and other zinc pigments.....1,000 lbs.		19,319	15,539	19,796	18,787	22,681		871	720	878	836	1,041
All other.....do		11,220	1,553	2,227	2,194	1,701		1,593	735	886	514	501
Paints, stains, and enamels.....1,000 lbs.		1 24	19	38	26	29		1,428	519	742	680	565
Varnishes.....1,000 gals.								1 63	51	78	44	50
<b>E. Fertilizers and materials—1,000 tons of 2,240 lbs.</b>												
Nitrogenous—												
Calcium cyanamid or lime nitrogen.....tons of 2,240 lbs.		1,609	2,268	2,063	1,819	2,535	40,727	56,865	73,072	69,239	53,842	78,118
Calcium nitrate.....do		59,990	97,954	88,373	109,380	135,727		3,049	4,689	4,193	4,337	4,685
Sodium nitrate.....do		18,223	7,777	13,457	18,360	23,315		1,347	228	566	845	1,012
Ammonium nitrate.....do		646,389	1,112,226	914,295	748,782	1,032,911	17,615	37,153	52,531	42,781	30,132	36,991
Ammonium-sulphate nitrate.....do					44,669	83,913	644		730	450	2,631	4,763
Guano.....do		* 14,801	17,407	11,673	23,321	22,584		* 595	588		1,047	1,047
Dried blood.....do		* 7,370	10,189	11,412	11,963	9,511	271	* 415	588	707	686	667
Tankage.....do		* 25,883	30,660	24,568	23,672	43,461		* 247	1,018	1,009	900	1,238

Sulphate of ammonia.....do.....	68,506	8,874	23,762	8,385	17,153	42,066	4,208	479	1,326	468	780	1,845
All other.....do.....		870,920	72,792	71,732	53,627	82,270		2,181	1,941	2,524	1,196	2,476
Phosphates.....do.....												
Bone phosphates.....do.....	736,217	31,470	24,931	46,716	54,586	82,459	7889	965	724	1,380	541	2,567
Other phosphate materials.....do.....		115,061	11,283	21,994	47,329	50,388		1199	190	282	561	501
Potash fertilizers.....do.....												
Chloride, crude (muriate of potash).....do.....	204,461	131,597	161,028	199,191	163,817	233,611	6,805	4,722	5,194	6,196	5,739	8,182
Sulphate, crude.....do.....	43,656	56,406	68,952	69,873	68,994	86,458	1,769	2,267	2,080	2,823	2,948	3,908
Sulphate, crude.....do.....		144,175	182,528	181,877	102,987	107,051		1,104	1,713	2,215	815	887
Kaunite.....do.....	11715,012	222,685	384,232	316,440	277,938	404,680	114,353	2,315	3,677	3,391	3,677	5,251
Manure salts.....do.....		134,235	23,567	48,333	9,403	10,756		1,404	321	498	245	330
Other potash-bearing substances.....do.....												
Fertilizers, compounded or chemically combined, containing nitrogen, phosphoric acid, and potash.....tons of 2,240 lbs.....do.....		59,441	39,367	54,299	42,987	79,787	5,400	1,598	956	765	901	249
All other fertilizers.....do.....							740	918	1,104	1,165	1,093	979
F. Explosives.....do.....												
Acides, fulminates, dynamite, etc., and powder from country imposing duty.....do.....												
Firecrackers.....do.....												
Fireworks and ammunition.....do.....												
G. Soaps and toilet preparations.....do.....												
Soap.....do.....												
Castile.....do.....		1,838	1,824	2,021	2,396	3,403		234	230	246	367	427
Toilet.....do.....		2,793	1,089	1,219	1,653	2,012	793	538	385	409	570	575
All other.....do.....			2,580	3,094	1,976	1,705			306	319	198	183
Perfumery, bay rum, and toilet water.....do.....									2,032	2,188	2,002	1,641
Perfume materials.....do.....							1,710	6,304	3,383	2,799	4,329	3,550
Cosmetics, powders, creams, etc.....do.....		1,155	1,196		1,024	1,067			734	641	731	746
Total.....do.....							95,420	183,145	158,832	171,331	178,378	197,213
H. Miscellaneous.....do.....												
A. Photographic goods.....do.....												
Cameras and parts.....do.....												
Sensitized films, not exposed.....do.....												
Motion-picture films.....do.....												
Negatives.....do.....												
Positives.....do.....												
Other films and dry plates.....do.....												
Photographic paper.....do.....												
B. Scientific and professional instruments, apparatus, and supplies, n. e. s.....do.....												
Optical goods.....do.....												
Opera and field glasses.....do.....												
Other optical instruments and parts.....do.....												
Spectacles, eyeglasses, and parts.....do.....												

1 Average for years 1912-1914.

2 Average for years 1922-1925.

3 Average for years 1924-25.

4 Average for years 1921 and 1924-25.

5 "Hydrate" prior to Sept. 22, 1922.

6 All paints, colors, and varnishes, except zinc pigments prior to Sept. 22, 1922.

7 Oct. 4, 1913, to June 30, 1914.

## No. 538.—GENERAL IMPORTS OF MERCHANDISE BY COMMODITY GROUPS AND ARTICLES—Continued

Group and article	Quantity						Value in thousands of dollars				
	1910-1914	1921-1925	1925	1926	1927	1928	1910-1914	1921-1925	1925	1926	1927
<b>GROUP 9. MISCELLANEOUS—Continued</b>											
<b>B. Scientific and professional instruments, etc.—</b>											
Continued											
Optical goods—Continued											
Dental and surgical instruments								1,480	419	464	564
Philosophical and scientific instruments, etc.							603	469	592	705	889
<b>C. Musical instruments.</b>											
Pianos and organs							1,748	3,738	4,236	5,197	4,797
Photograph and similar articles and parts								1,205	289	305	227
Band instruments and violins							58	553	384	641	490
Other instruments and accessories							1,690	1,657	888	873	769
								2,739	2,955	3,679	2,823
<b>D. Toys and athletic goods.</b>											
Toys							8,074	8,081	6,179	6,795	6,933
Dolls and parts								1,323	761	783	990
Other toys							7,893	5,143	3,497	3,611	3,598
Dice, dominoes, chips, etc.							56	1,124	82	85	101
Athletic and sporting goods—											
Fishing rods, reels, books, bait, etc.							11,156	456	359	356	368
Golf balls								1,316	1,166	1,377	1,034
Other balls for games								8,369	133	109	111
Other athletic sporting goods								369	382	471	462
<b>F. Firearms.</b>											
Books and other printed matter								3,646	547	540	550
Books and pamphlets in foreign languages							9,247	9,408	13,378	14,422	14,423
Books, maps, music, etc., 20 years old									1,796	1,648	1,665
Other books, etc. (free)									2,789	2,453	3,876
Books, pamphlets, and music, n. e. s.							6,308	8,019	2,470	2,305	2,183
Maps, charts, and other printed matter, n. e. s.									2,819	3,704	4,058
Lithographic prints—									883	571	757
Cigar bands, labels, and flaps									147	190	273
Decalcomanias							2,209	612	468	607	612
All other							640	776	1,333	1,231	1,207
<b>H. Clocks, watches, etc.</b>											
Chronometers, clocks, and parts							3,817	11,807	12,859	14,885	13,244
Watches and watch movements							794	833	786	1,044	1,265
Cases, dials, and parts of watches, n. e. s.							2,496	6,444	7,270	10,417	9,286
Jewels for watches, clocks, meters, or compasses							27	3,480	3,061	1,415	1,592
Recorders, meters, regulators, and similar instruments, and parts, n. s. p. f.								1,462	1,471	1,783	1,244
								1,189	272	327	502



I. Art works									
The production of American artists									66,764
Original paintings, statuary, etc.									163
Statuary, regalia, etc., for religious or educational purposes									15,845
Works of art 100 years old									1,514
Works of art for exhibition, presentation to public institutions, etc.									46,914
All other art works									1,138
									632
									73,036
J. Miscellaneous articles, n. e. s.									
Buttons—									489
Pearl or shell									769
Agate, horn, and glass									280
All other									183
Matches—									2,090
In boxes containing not more than 100 matches									25
All other									1,449
Beads and bead ornaments—									3,292
Imitation pearl beads									492
Other beads									1,366
Fabrics and articles, chief value beads									522
Pipes and smokers' articles									529
Brushes—									579
Tooth									2,765
Other toilet									867
Other brushes									342
Pyroxylin products, celluloid, pyralin, etc.									7,747
Pencils, crayons, leads, etc.									7,025
Pens and penholders									5,349
All other durable articles									286
Household and personal effects, etc., of persons arriving in the United States									4,513
Articles, imported under bond, for export within 6 months									20,048
Articles the growth, produce, or manufacture of the United States, returned—									1,074
Automobiles									20
Containers—									6
Thousands									1
All other									2,032
Articles imported under special provisions, n. e. s.									
Product of the Philippine Islands, n. e. s.									
Product of the Virgin Islands, n. e. s.									
Product of Cuba, n. e. s.									
All other free articles									

1 Average for years 1922-1925

2 Average for years 1924-25.

3 Average for years 1921 and 1924-25.

4 Average for years 1922-1925.

11 Average for years 1911-1914.

12 Less than 500.

13 Prior to Oct. 4, 1913, limited to those at least 30 years old.

14 Includes "cigarette books, covers, and paper," for years 1910-1912.

53,464

256

8,331

1,563

41,494

1,001

694

67,867

68,036

60,491

371

11,827

1,609

44,769

1,001

694

67,867

68,036

53,464

256

8,331

1,563

41,494

1,001

694

67,867

68,036

46,874

256

8,331

1,563

41,494

1,001

694

67,867

68,036

31,322

218

6,787

333

22,324

709

347

30,004

30,004

35,045

719

348

45,146

1,400

1,338

34,239

34,239

46,874

256

8,331

1,563

41,494

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694

67,867

68,036

31,322

218

6,787

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34,239

## No. 539.—REEXPORTS OF FOREIGN MERCHANDISE

NOTE.—Values expressed in thousands of dollars. Group totals are for all items in the group, only the most important of which are listed. For weights of the bushel and barrel see appendix, p. 800. Tons are of 2,240 pounds.

Group	1923	1924	1925	1926	1927	1928
Total value.....	78, 778	93, 335	91, 125	96, 939	106, 512	98, 258
Group 00—Animals and animal products, edible.....	1, 537	2, 203	2, 865	2, 234	1, 890	2, 150
Group 01—Animals and animal products, inedible.....	10, 821	12, 343	10, 901	10, 765	14, 562	17, 129
Group 1—Vegetable food products and beverages.....	17, 721	21, 963	20, 693	20, 693	19, 817	20, 184
Group 2—Other vegetable products, except fibers and wood.....	12, 514	14, 213	25, 986	27, 820	30, 571	25, 249
Group 3—Textiles.....	24, 683	32, 842	21, 978	24, 202	25, 656	19, 780
Group 4—Wood and paper.....	749	751	594	623	729	896
Group 5—Nonmetallic minerals.....	1, 276	622	488	1, 691	728	712
Group 6—Metals, and manufactures of, except machinery and vehicles.....	1, 329	1, 967	1, 810	2, 934	3, 161	2, 933
Group 7—Machinery and vehicles.....	407	487	505	422	528	598
Group 8—Chemicals and related products.....	1, 612	1, 737	1, 335	1, 381	1, 763	1, 976
Group 9—Miscellaneous.....	4, 129	4, 206	4, 570	5, 561	7, 108	6, 651

  

Article	1928		Article	1928	
	Quantity	Value		Quantity	Value
GROUP 00			GROUP 2		
Butter.....M pounds.....	457	154	Rubber, crude.....M pounds.....	72, 036	18, 129
Cheese.....do.....	217	71	Balata.....do.....	346	122
Fish (total).....do.....	11, 427	1, 147	Gums (total).....do.....	4, 720	1, 418
Herring.....do.....	2, 793	161	Shellac.....do.....	1, 396	646
Cod, haddock, hake, and pollock.....M pounds.....	5, 568	480	Damar, kauri, and copal.....do.....	1, 899	129
Eggs, frozen, dried, etc.....do.....	991	246	Vegetable drugs.....do.....	1, 157	439
Sausage casings.....do.....	160	172	Copra.....do.....	4, 972	273
GROUP 0			Oils expressed (total).....do.....	18, 015	1, 947
Hides and skins, except fur skins (total).....M pounds.....	29, 366	8, 629	Chinese wood oil.....do.....	6, 186	839
Cattle hides.....do.....	24, 515	6, 743	Coconut oil.....do.....	6, 531	550
Calfskins.....do.....	1, 901	694	Palm and palm-kernel oil.....do.....	3, 389	278
Goatskins.....do.....	562	297	Vegetable wax.....do.....	663	174
Sheepskins.....do.....	1, 036	417	Essential oils.....do.....	176	232
Leather.....do.....		708	Dyeing and tanning materials of vegetable origin.....M pounds.....	448	111
Furs.....do.....			Seeds except oil seeds.....do.....	1, 015	97
Undressed.....thousands.....	3, 977	5, 640	Tobacco (total).....do.....	2, 561	1, 930
Dressed.....do.....	277	844	Cigar wrapper leaf.....do.....	213	277
Horses.....number.....	43	63	Other leaf.....do.....	2, 179	1, 464
Bristles.....M pounds.....	323	464	Vegetable ivory (tagua nuts).....do.....	3, 062	120
Shells, unmanufactured.....do.....	768	154	GROUP 3		
Sponges.....do.....	157	127	Cotton (total).....do.....		3, 175
GROUP 1			Unmanufactured.....M pounds.....	8, 763	2, 391
Grains and preparations of (total).....do.....		613	Cloth.....M sq. yds.....	302	59
Corn.....M bushels.....	2	1	Wearing apparel.....do.....		209
Rice, cleaned.....M pounds.....	9, 933	355	Burlaps.....M pounds.....	618	92
Wheat.....do.....	46	70	Jute bags.....do.....	3, 230	236
Wheat flour.....M barrels.....	5	41	Hemp.....tons.....	2, 120	433
Vegetables (total).....do.....		3, 383	Manufactures of flax, hemp, or ramie.....do.....		282
Beans.....M bushels.....	230	685	Manila, or abaca.....tons.....	1, 804	408
Peas.....do.....	612	2, 313	Sisal and henequen.....do.....	24, 772	4, 167
Fruits (total).....do.....		7, 577	Kapok.....do.....	233	105
Bananas.....M bunches.....	3, 515	5, 718	Hat braid of straw or fiber.....M yds.....	31, 502	127
Pineapples.....M boxes.....	90	301	Hats of straw, palm leaf, or other fiber.....thousands.....	1, 185	333
Dates.....M pounds.....	3, 153	292	Wool (total).....M pounds.....	4, 614	1, 998
Nuts (total).....do.....		472	Carpet wool.....do.....	532	162
Cream and Brazil.....M pounds.....	675	77	Clothing wool.....do.....	424	196
Walnuts.....do.....	575	90	Combing wool.....do.....	3, 479	1, 554
Peanuts.....do.....	3, 456	175	Mohair, alpaca, etc.....do.....	179	86
Cacao beans.....do.....	19, 516	2, 668	Wool manufactures (total).....do.....		1, 005
Coffee.....do.....	9, 735	2, 408	Wool rags, nolls, waste.....do.....	536	116
Tea.....do.....	401	196	Wool cloths and dress goods.....do.....	192	247
Spices (total).....do.....	4, 543	1, 283	Wool carpets and rugs.....M sq. yds.....	37	431
Nutmegs.....do.....	217	59			
Pepper.....do.....	1, 827	566			
Vanilla beans.....do.....	46	88			
Sugar.....do.....	43, 488	1, 347			

## No. 539.—REEXPORTS OF FOREIGN MERCHANDISE—Continued

[Values expressed in thousands of dollars]

Article	1928		Article	1928	
	Quantity	Value		Quantity	Value
GROUP 3—Continued			GROUP 6—Continued		
Hair and manufactures. M pounds..	236	101	Tin in bars, blocks, or pigs		
Silk (total).....		6,535	-----M pounds..	2,840	1,458
Silk, raw.....M pounds..	1,082	5,405	GROUP 7		
Spun silk.....do.....	37	211	Electrical machinery and apparatus.....		100
Silk fabrics (broad silk).....do.....	80	460	Textile machinery and parts.....M pounds..	215	65
Silk wearing apparel.....do.....	18	324	Other machinery, except agricultural.....		241
Artificial silk and manufactures.....		340	Automobiles and chassis.....number..	38	79
GROUP 4			GROUP 8		
Wood (total).....		525	Chemicals (total).....		554
Cabinet wood logs.....M feet..	1	124	Coal-tar colors or dyes.....M pounds..	155	196
Paper.....M pounds..	305	208	Medicinal and pharmaceutical preparations.....		111
GROUP 5			Nitrate of soda.....M tons.....	18	895
Petroleum and products.....			GROUP 9		
-----M barrels.....	16	79	Photographic goods.....M lin feet..	781	36
Mineral wax.....M pounds..	1,186	61	Art works, paintings, and statuary.....		5,050
Asbestos, unmanufactured.....ton..	1,181	165			
Mica and manufactures of.....M pounds..	16	14			
Clay and clay products.....		67			
GROUP 6					
Iron and steel.....		387			
Copper ingots, bars, etc.M pounds..	2,991	441			
Lead pigs, bars, and old.....do.....	2,973	149			

## No. 540.—IMPORTED DUTIABLE MERCHANDISE ENTERED FOR CONSUMPTION: BY TARIFF SCHEDULES

NOTE.—All figures except percentages in thousands of dollars. Figures cover fiscal years to and including 1918, calendar thereafter. Per cents represent the average ad valorem rate or ratio of duties to values of dutiable merchandise.

Year	Schedule A.—Chemicals, oils, and paints			Schedule B.—Earths, earthenware, and glassware			Schedule C.—Metals, and manufactures of		
	Values	Duties	Per cent	Values	Duties	Per cent	Values	Duties	Per cent
1903.....	31,250	8,981	28.74	25,735	13,320	51.76	65,165	22,368	34.33
1904.....	30,809	8,814	28.61	24,704	13,163	53.28	40,011	15,682	39.20
1905.....	31,011	8,845	28.52	23,126	12,194	52.73	36,327	14,449	39.77
1906.....	33,482	9,665	28.87	26,590	13,749	51.71	50,917	18,770	36.86
1907.....	40,247	11,024	27.64	31,306	15,350	49.03	67,149	21,882	32.59
1908.....	39,127	10,580	26.91	26,224	13,251	50.53	45,280	16,004	35.34
1909.....	42,937	11,218	26.13	21,148	10,642	50.32	41,103	15,656	38.09
1910.....	42,022	11,072	26.41	24,774	12,468	50.33	66,961	22,333	33.35
1911.....	48,869	12,564	25.71	24,495	12,669	51.72	58,757	18,869	32.11
1912.....	47,236	12,240	25.91	21,902	11,155	50.72	50,492	17,346	34.35
1913.....	49,387	13,017	26.36	22,002	11,885	49.50	64,300	20,514	31.90
1914.....	60,314	13,100	21.72	25,222	10,187	40.39	50,743	12,190	24.02
1915.....	54,098	11,222	20.74	18,142	6,805	37.51	31,836	6,990	21.96
1916.....	52,806	9,309	17.63	13,024	4,677	35.91	33,245	6,309	18.98
1917.....	65,614	12,066	18.37	13,531	4,614	34.10	33,914	7,038	20.75
1918.....	65,762	10,507	15.98	13,444	4,707	35.01	33,227	6,813	20.51
1918 (6 months).....	27,216	4,308	15.83	5,783	2,065	35.71	16,622	3,451	20.76
1919.....	108,151	13,922	12.87	14,933	5,009	33.55	43,186	8,672	20.08
1920.....	120,319	15,335	12.75	30,257	9,241	30.54	83,337	16,677	20.01
1921.....	64,753	14,144	21.84	28,591	9,864	34.50	62,793	13,672	21.77
1922.....	88,471	22,102	24.98	40,526	14,001	34.56	82,105	20,468	24.93
1923.....	90,123	26,989	29.95	60,152	25,526	39.09	103,307	35,013	33.89
1924.....	77,015	24,492	31.80	54,481	22,098	40.56	96,768	35,240	36.21
1925.....	93,746	27,465	29.30	56,391	24,529	43.50	113,684	38,961	34.27
1926.....	98,328	28,681	29.17	61,089	28,908	47.32	147,010	48,528	33.01
1927.....	98,312	27,997	28.48	58,260	28,217	48.43	135,403	47,179	34.84
1928.....	92,633	28,011	30.24	53,321	25,865	48.51	131,921	46,251	35.06

# No. 540.—IMPORTED DUTIABLE MERCHANDISE ENTERED FOR CONSUMPTION: BY TARIFF SCHEDULES—Continued

[All figures except percentages in thousands of dollars]

Year	Schedule D—Wood, and manufactures of			Schedule E—Sugar, molasses, and manu- factures of			Schedule F.—Tobacco, and manufactures of		
	Values	Duties	Per cent	Values	Duties	Per cent	Values	Duties	Per cent
1903	16,659	2,815	16 90	65,959	63,626	96 46	18,299	21,892	119 63
1904	14,450	2,464	17 05	77,898	58,152	74 65	17,876	21,176	118 46
1905	16,708	2,750	16 46	91,577	51,442	56 17	20,725	22,690	109 48
1906	22,761	3,650	16 04	86,133	52,649	61 12	22,917	23,928	104 41
1907	24,472	3,701	15 12	92,734	60,339	65 03	29,959	26,125	87 20
1908	23,350	3,301	14 14	83,627	50,168	59 99	26,495	22,160	83 64
1909	23,285	3,141	13 49	93,479	56,414	60 35	27,332	23,269	85 14
1910	27,489	3,185	11 59	101,587	53,105	52 28	29,581	24,124	81 55
1911	24,710	2,960	11 98	97,877	52,809	53 95	29,788	26,160	87 82
1912	24,415	3,043	12 46	105,745	50,951	48 18	31,116	25,572	82 18
1913	27,551	3,408	12 24	91,448	53,482	58 48	32,438	26,748	82 46
1914	12,182	1,619	13 29	108,255	61,870	57 15	32,332	26,892	83 17
1915	4,457	709	15 90	157,571	49,608	31 48	29,499	24,875	84 33
1916	4,583	660	14 40	205,512	55,876	27 19	30,195	27,581	91 34
1917	5,207	756	14 52	243,354	55,471	22 79	37,300	29,837	79 99
1918	4,412	636	14 41	240,380	49,093	20 42	31,963	21,961	68 76
1918 (6 months)	1,675	218	12 99	87,180	18,250	20 93	20,309	12,270	60 42
1919	6,090	852	13 99	387,283	68,609	17 72	51,009	27,563	53 41
1920	13,367	1,979	14 81	926,467	79,536	8 58	63,816	33,605	52 80
1921	9,894	1,546	15 63	233,451	71,325	30 55	66,614	35,950	53 97
1922	13,174	2,373	18 02	232,941	147,969	63 52	62,415	31,789	50 93
1923	18,230	4,001	21 95	353,873	128,064	36 19	64,881	35,831	55 22
1924	18,115	4,161	22 97	337,862	135,906	40 23	67,530	33,941	50 26
1925	18,570	4,164	22 42	221,347	139,103	62 84	69,943	35,428	50 65
1926	18,004	4,307	23 92	205,669	146,591	71 28	70,789	38,076	53 79
1927	19,879	4,535	22 81	222,703	131,199	58 91	68,632	40,016	58 31
1928	16,917	4,191	24 77	174,760	118,572	67 85	62,319	39,315	63 09
Year	Schedule G—Agricultural products and provisions <sup>1</sup>			Schedule H—Spirits, wines, and other bev- erages			Schedule I—Cotton manufactures		
	Values	Duties	Per cent	Values	Duties	Per cent	Values	Duties	Per cent
1903	46,221	16,282	35 23	16,785	11,647	69 39	25,332	11,944	47 15
1904	49,014	16,891	34 46	17,120	12,106	70 71	23,442	11,035	47 07
1905	47,670	15,418	32 41	17,912	12,548	70 05	22,027	10,409	47 26
1906	53,869	18,127	33 65	19,669	14,010	71 22	26,656	12,293	46 12
1907	63,721	19,204	30 14	23,083	16,318	70 69	31,857	14,285	44 84
1908	69,610	21,619	31 06	21,420	15,213	71 02	31,577	13,878	43 95
1909	71,719	23,633	32 95	23,382	16,144	69 05	26,228	11,666	44 48
1910	84,873	25,161	29 64	25,316	18,114	71 55	28,311	13,619	48 11
1911	105,974	28,744	27 12	20,355	17,299	84 99	26,204	12,326	47 04
1912	117,711	34,146	29 01	20,731	17,410	83 98	24,358	11,085	45 51
1913	99,798	27,755	27 81	22,372	19,476	87 05	25,057	11,062	44 14
1914	122,305	24,817	20 29	21,764	19,675	90 40	32,529	9,260	28 47
1915	87,673	18,036	20 57	14,393	13,405	93 14	24,065	6,442	26 31
1916	94,635	16,164	17 08	17,330	15,551	89 73	24,245	5,969	24 62
1917	132,718	17,916	13 50	18,612	13,586	73 00	36,417	8,260	22 68
1918	125,360	14,595	11 64	10,563	7,038	66 63	30,947	6,872	22 21
1918 (6 months)	49,322	5,547	11 25	3,109	1,628	52 36	13,622	3,106	22 80
1919	161,168	15,803	9 80	2,338	1,194	51 08	33,220	7,716	23 23
1920	253,569	24,521	9 70	2,543	1,157	45 52	89,275	21,185	23 74
1921	156,497	26,206	16 75	3,197	1,515	47 37	58,414	15,242	26 09
1922	199,479	42,505	21 31	2,657	1,111	41 83	73,335	20,017	27 34
1923	236,976	61,578	25 98	1,371	613	44 67	68,207	21,946	32 18
1924	235,198	60,093	25 55	1,065	431	40 47	59,981	18,083	30 15
1925	259,917	60,568	23 30	1,161	492	42 38	49,999	15,347	30 69
1926	270,063	64,373	23 84	1,150	450	39 13	38,842	13,666	34 30
1927	284,253	64,072	22 54	1,350	465	34 44	40,461	14,561	35 99
1928	282,375	64,140	22 71	1,346	483	35 88	42,456	15,681	36 93

<sup>1</sup> Potatoes, dutiable under paragraph 581, and wheat and products, dutiable under paragraph 644, tariff act of 1913, are included, beginning with 1914.

No. 540.—IMPORTED DUTIABLE MERCHANDISE ENTERED FOR CONSUMPTION:  
BY TARIFF SCHEDULES—Continued

[All figures except percentages in thousands of dollars]

Year	Schedule J.—Flax, hemp, and jute, and manufactures of <sup>1</sup>			Schedule K.—Wool, and manufactures of			Schedule L.—Silks and silk goods		
	Values	Duties	Per cent	Values	Duties	Per cent	Values	Duties	Per cent
1903	71,298	33,191	46 55	40,560	29,196	71 98	36,048	19,277	53 47
1904	71,460	32,898	46 04	39,963	27,252	68 19	31,483	16,610	52 76
1905	73,284	33,769	46 08	53,465	33,078	61 87	31,823	17,010	53 45
1906	92,055	41,777	45 38	63,265	37,969	60 02	32,592	17,351	53 24
1907	114,124	49,891	43 72	62,832	36,561	58 19	38,817	20,314	52 33
1908	96,177	41,922	43 59	45,822	28,845	62 95	31,755	16,493	51 94
1909	91,210	42,145	46 21	52,814	33,365	63 17	31,001	16,284	52 53
1910	106,375	49,735	46 75	70,745	41,905	59 23	32,296	17,024	52 71
1911	90,402	47,053	47 34	48,395	28,983	59 89	30,994	16,053	51 80
1912	108,698	49,062	45 14	48,361	27,072	55 98	24,572	13,095	51 54
1913	116,587	48,912	41 95	45,336	25,833	56 98	29,224	14,812	50 68
1914	56,471	19,913	35 26	39,265	16,957	43 19	34,040	15,377	45 17
1915	30,951	8,795	29 27	30,438	9,912	32 56	23,098	9,810	42 47
1916	30,944	8,619	27 85	18,353	6,129	33 39	28,305	11,928	42 14
1917	29,130	8,209	28 19	21,184	7,081	33 43	35,124	14,655	41 72
1918	26,587	7,200	27 08	27,048	8,956	33 11	24,474	10,067	41 13
1918 (6 months)	10,873	2,682	24 67	9,827	2,962	30 14	10,749	4,308	40 07
1919	27,187	6,552	24 10	18,123	5,695	31 42	49,684	20,276	40 81
1920	52,926	13,362	25 25	49,800	16,720	33 57	55,793	21,773	39 02
1921	36,828	10,118	27 47	52,410	18,307	34 93	45,055	18,576	41 23
1922	63,505	15,999	25 19	79,956	48,225	60 31	30,653	16,622	45 35
1923	121,126	24,682	20 34	162,016	81,406	56 45	40,794	21,692	53 18
1924	117,216	26,121	22 28	123,904	62,582	50 51	83,234	17,639	53 05
1925	143,723	25,684	17 87	162,458	71,019	43 71	40,304	21,388	53 07
1926	145,168	26,737	18 42	148,187	73,965	49 91	44,138	24,074	54 54
1927	126,524	26,525	20 96	127,707	67,219	52 64	51,293	28,815	56 18
1928	135,769	25,088	18 48	115,181	57,172	49 64	48,739	27,810	57 06
Year	Schedule M.—Pulp, papers and books			Schedule N.—Sundries <sup>2</sup>			Tea		
	Values	Duties	Per cent	Values	Duties	Per cent	Values	Duties	Per cent
1903	9,908	2,221	22 28	98,423	20,843	21 18	3,028	2,178	71 93
1904	10,771	2,379	22 09	78,681	18,767	23 85	-----	-----	-----
1905	11,975	2,526	21 09	92,513	20,771	22 45	-----	-----	-----
1906	14,174	3,021	21 31	119,640	26,601	22 23	-----	-----	-----
1907	20,005	4,136	20 67	133,093	29,892	22 45	-----	-----	-----
1908	22,335	4,415	19 75	94,616	24,475	25 87	-----	-----	-----
1909	22,765	4,412	19 39	113,862	26,387	23 17	-----	-----	-----
1910	24,833	5,285	21 28	120,594	29,134	24 16	-----	-----	-----
1911	26,111	5,645	21 62	109,050	27,448	25 17	-----	-----	-----
1912	22,828	4,887	21 41	108,953	26,932	24 72	-----	-----	-----
1913	24,899	5,091	20 45	128,018	30,759	24 03	-----	-----	-----
1914	13,999	3,114	22 25	144,588	48,539	33 57	-----	-----	-----
1915	9,386	1,989	21 19	100,817	37,159	36 86	-----	-----	-----
1916	6,491	1,258	19 38	123,485	39,496	31 98	-----	-----	-----
1917	8,036	1,682	20 92	134,558	40,286	29 94	-----	-----	-----
1918	6,368	1,185	18 60	106,803	30,568	28 62	-----	-----	-----
1918 (6 months)	2,759	460	16 67	44,035	12,653	28 73	-----	-----	-----
1919	6,797	1,106	16 27	206,447	54,433	26 37	-----	-----	-----
1920	10,488	1,749	16 68	233,908	68,704	29 37	-----	-----	-----
1921	8,902	1,672	18 78	165,192	54,222	32 82	-----	-----	-----
1922	12,806	2,776	21 67	197,513	65,370	33 09	-----	-----	-----
1923	19,217	4,607	24 29	226,319	86,647	38 29	-----	-----	-----
1924	18,729	4,813	25 70	215,846	86,695	40 17	-----	-----	-----
1925	18,682	4,416	23 60	217,279	83,288	38 33	-----	-----	-----
1926	21,463	5,241	24 42	229,078	86,448	37 74	-----	-----	-----
1927	22,138	5,417	24 47	225,117	88,624	39 19	-----	-----	-----
1928	25,910	7,881	30 42	215,657	81,810	37 94	-----	-----	-----

<sup>1</sup> Laces, embroideries, etc., included in Schedule J prior to 1914 are, under the law of Oct. 3, 1913, included in Schedule N, beginning 1914.

## 23.—COMMERCE OF NONCONTIGUOUS TERRITORIES

GENERAL NOTE.—In the general foreign-trade statistics of the United States presented in the preceding section, the Philippines and Virgin Islands are treated as foreign countries and their trade with the United States is included while their trade with other countries is not included. On the other hand, Porto Rico, Hawaii, and Alaska are treated as integral parts of the United States, so that trade between them and continental United States is not included, while trade between them and foreign countries is included; each of these three possessions appears as a separate customs district (Table 531). Neither trade of American Samoa and Guam with foreign countries nor shipments between them and United States are included in the general tables on foreign trade. See also Table 502, p. 462.

In the present section the trade of each of these possessions with the United States (including other non-contiguous possessions except the Philippines and Virgin Islands) is shown, and separately its trade with foreign countries (including the Philippines and Virgin Islands).

### No. 541.—IMPORTS AND EXPORTS OF ALASKA

NOTE.—In 1923 Alaska shipped \$282,045 worth of domestic silver to the United States

Yearly average or year ended—	Merchandise imports			Merchandise exports			Shipments domestic gold to United States
	From United States <sup>1</sup>	From other countries	Total	To United States	To other countries	Total	
	Dollars	Dollars	Dollars	Dollars	Dollars	Dollars	Dollars
June 30							
1882-1885	680, 250	9, 198	-----		24, 955	-----	
1886-1890	1, 455, 600	28, 697	-----		8, 748	-----	
1891-1895	2, 422, 600	42, 539	-----		15, 528	-----	
1896-1900	9, 843, 000	185, 182	-----		135, 069	-----	
1901	13, 457, 000	557, 992	-----		2, 584, 318	-----	
1902		511, 830	-----		2, 612, 021	-----	
1903	9, 509, 701	477, 463	9, 987, 164	10, 228, 569	1, 612, 128	11, 840, 697	-----
1904	10, 165, 110	607, 355	10, 772, 465	10, 165, 140	1, 565, 690	11, 730, 830	6, 347, 742
1905	11, 504, 255	1, 450, 910	12, 955, 165	10, 801, 446	1, 083, 165	11, 889, 611	9, 059, 023
1906	14, 869, 827	845, 291	15, 715, 118	9, 272, 337	1, 377, 398	10, 649, 735	12, 638, 698
1907	18, 402, 765	1, 134, 191	19, 536, 956	12, 155, 198	1, 489, 686	13, 644, 884	18, 564, 228
1908	16, 577, 903	776, 974	17, 354, 877	10, 967, 777	1, 857, 905	12, 825, 682	11, 490, 777
1909	17, 762, 600	647, 331	18, 409, 931	13, 110, 910	961, 101	14, 072, 011	17, 782, 493
1910	18, 670, 339	619, 348	19, 289, 687	12, 440, 380	1, 168, 014	13, 608, 394	18, 393, 128
1911	16, 205, 730	706, 171	16, 911, 901	14, 055, 329	1, 136, 745	15, 192, 074	15, 153, 671
1912	19, 417, 227	563, 503	19, 980, 730	21, 778, 064	1, 010, 072	22, 788, 136	17, 250, 019
1913	20, 827, 262	982, 271	21, 809, 533	24, 634, 987	1, 477, 991	26, 112, 978	14, 576, 015
1914	22, 461, 723	567, 399	23, 029, 122	21, 817, 408	1, 124, 239	22, 941, 647	12, 291, 672
1915	21, 260, 042	640, 886	21, 900, 928	27, 442, 335	1, 001, 389	28, 443, 724	15, 348, 696
1916	27, 086, 288	1, 066, 612	28, 152, 900	49, 468, 186	1, 426, 362	50, 894, 548	16, 195, 835
1917	38, 992, 049	1, 469, 524	40, 461, 573	60, 773, 859	2, 474, 894	63, 248, 753	15, 409, 529
1918	44, 280, 075	967, 532	45, 247, 607	71, 595, 414	2, 462, 470	74, 057, 884	12, 416, 660
Dec 31							
1918 (6 mos)	11, 678, 122	863, 515	12, 541, 637	62, 992, 202	763, 285	63, 755, 487	6, 671, 848
1919	37, 476, 232	1, 449, 362	38, 925, 594	60, 479, 548	1, 542, 249	62, 021, 797	8, 015, 005
1920	36, 876, 855	1, 512, 118	38, 388, 973	60, 939, 061	1, 530, 035	62, 469, 096	6, 543, 313
1921	19, 274, 215	935, 013	20, 209, 238	36, 916, 924	1, 445, 042	38, 361, 966	6, 543, 430
1922	26, 777, 806	870, 927	27, 648, 733	51, 082, 995	1, 371, 490	52, 454, 485	6, 640, 978
1923	30, 631, 366	514, 466	31, 145, 832	53, 761, 494	1, 325, 773	55, 087, 267	5, 931, 896
1924	32, 046, 273	529, 618	32, 575, 891	54, 974, 168	1, 351, 380	56, 325, 548	4, 602, 746
1925	32, 352, 530	846, 983	33, 199, 511	56, 918, 746	901, 543	57, 820, 289	5, 219, 542
1926	31, 537, 337	543, 683	32, 131, 020	73, 300, 506	1, 221, 881	73, 822, 387	5, 743, 076
1927	35, 604, 108	766, 302	36, 370, 410	51, 348, 688	483, 679	51, 807, 629	5, 394, 107
1928	32, 058, 976	559, 262	32, 618, 238	67, 587, 207	619, 065	68, 206, 272	6, 634, 249

<sup>1</sup> Unofficial estimates of the value of merchandise shipped from Pacific coast ports to Alaska from 1882 to 1901, from 1903 to date, official figures of shipments to Alaska.

Source: Bureau of Foreign and Domestic Commerce.

## No. 542.—IMPORTS AND EXPORTS OF PORTO RICO

Year ended—	Merchandise imports			Merchandise exports		
	From United States	From other countries	Total	To United States	To other countries	Total
June 30:	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>
1901	6,965,408	1,952,728	8,918,136	5,641,137	3,002,679	8,643,816
1902	10,882,652	2,326,957	13,209,610	8,378,766	4,055,190	12,433,956
1903	12,245,845	2,203,441	14,449,286	11,051,195	4,037,884	15,089,079
1904	11,210,060	1,958,969	13,169,029	11,722,826	4,543,077	16,265,903
1905	13,974,070	2,562,189	16,536,259	15,633,145	3,076,420	18,709,565
1906	19,224,881	2,602,784	21,827,665	19,112,461	4,115,069	23,257,530
1907	25,686,285	3,580,887	29,267,172	22,070,133	4,926,167	26,996,300
1908	22,677,876	3,148,289	25,825,665	21,891,261	4,753,209	26,644,470
1909	23,618,545	2,925,781	26,544,326	26,394,312	3,996,913	30,391,225
1910	27,097,654	3,537,201	30,634,855	32,095,897	5,864,617	37,960,514
1911	34,671,953	4,115,039	38,786,997	34,765,409	5,152,958	39,918,367
1912	38,470,968	4,501,928	42,972,891	42,873,401	6,832,012	49,705,413
1913	33,155,005	3,745,057	36,900,062	40,538,623	8,694,942	49,103,565
1914	32,668,368	3,838,419	36,406,787	34,423,180	8,679,582	43,102,762
1915	30,929,831	2,954,465	33,884,296	42,311,920	7,044,987	49,356,907
1916	35,892,815	3,068,400	38,960,915	60,932,758	5,634,937	66,567,695
1917	49,539,249	4,005,975	53,545,224	73,115,224	7,855,680	80,970,904
1918	58,946,758	4,443,524	63,390,282	65,515,650	8,753,450	74,269,100
Dec 31:						
1918 (6 months)	25,668,096	1,796,219	27,464,315	31,333,827	3,733,065	35,066,892
1919	67,799,541	5,261,052	73,060,593	78,320,180	11,075,625	89,395,805
1920	121,551,574	7,512,404	129,073,978	158,322,038	16,346,697	174,668,736
1921	60,977,112	7,377,251	68,354,363	71,987,716	6,753,990	78,741,706
1922	57,968,112	6,849,098	64,817,210	60,105,155	5,012,292	65,117,447
1923	76,919,616	7,547,504	84,467,120	80,303,272	5,768,723	86,071,995
1924	78,412,003	9,337,444	87,749,447	77,330,748	7,397,792	84,728,540
1925	77,499,807	11,620,875	89,120,682	92,679,754	7,053,295	99,733,049
1926	84,737,537	12,664,064	97,401,601	90,166,856	7,579,594	97,746,450
1927	86,826,546	11,264,383	97,594,286	96,902,024	7,557,741	104,459,765
1928	81,981,460	13,325,628	95,307,088	97,268,763	6,338,039	103,606,802

## No. 543.—IMPORTS AND EXPORTS OF HAWAII

Year ended—	Merchandise imports			Merchandise exports		
	From United States	From other countries	Total	To United States	To other countries	Total
June 30.	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>
1901	(1)	2,835,278	(1)	27,903,058	120,211	28,023,269
1902	(1)	3,036,583	(1)	24,730,060	63,547	24,793,607
1903	10,943,063	3,142,013	14,085,076	26,242,869	32,569	26,275,438
1904	11,683,393	3,797,641	15,481,034	25,157,255	47,620	25,204,875
1905	11,753,180	3,014,964	14,768,144	36,112,055	59,541	36,171,596
1906	12,046,675	3,275,242	15,311,917	26,882,199	56,313	26,938,512
1907	14,435,725	4,151,709	18,587,434	29,071,813	229,914	29,301,727
1908	15,038,155	4,682,399	19,720,554	41,640,505	597,640	42,238,145
1909	17,780,778	4,033,574	21,814,352	40,432,945	34,152	40,517,097
1910	20,550,101	4,006,384	24,556,485	46,183,265	306,763	46,490,028
1911	21,925,177	5,190,449	27,115,626	41,207,651	730,642	41,938,293
1912	24,652,905	5,598,444	30,251,349	55,076,070	373,273	55,449,343
1913	30,646,089	6,373,531	37,019,620	42,713,184	758,646	43,471,830
1914	25,773,412	6,282,558	32,055,970	40,678,580	915,245	41,593,825
1915	25,004,764	5,716,023	30,720,787	62,087,250	377,509	62,464,759
1916	31,127,577	6,068,529	37,196,106	64,438,297	226,747	64,665,044
1917	44,380,475	6,482,951	50,813,426	73,174,343	923,747	74,098,090
1918	43,646,515	6,807,048	50,453,563	79,392,926	1,553,700	80,946,626
Dec 31:						
1918 (6 months)	19,061,246	5,476,008	24,537,254	42,224,209	4,152,299	46,376,508
1919	49,983,869	8,980,704	58,964,573	98,363,015	4,702,103	103,065,118
1920	74,052,453	12,284,592	86,337,045	192,383,185	3,437,699	195,820,884
1921	64,446,173	9,529,755	73,975,928	71,669,115	1,350,483	73,019,598
1922	53,585,740	7,496,913	61,082,653	73,431,301	1,257,268	74,688,569
1923	66,421,393	8,684,804	75,106,197	101,085,642	1,581,164	102,666,806
1924	69,767,693	8,884,223	78,651,916	108,473,292	1,415,911	109,889,203
1925	72,924,409	10,529,509	83,453,918	102,780,509	1,844,782	104,625,291
1926	76,262,624	10,254,505	86,517,129	98,260,941	1,854,079	100,145,020
1927	79,630,089	9,171,815	88,801,904	109,238,321	2,267,714	111,506,035
1928	77,823,643	10,361,293	88,184,936	116,956,090	2,514,631	119,470,721

1 No data.

Source of Tables 542 and 543 Bureau of Foreign and Domestic Commerce.

## No. 544.—IMPORTS AND EXPORTS OF THE PHILIPPINE ISLANDS

Year ended—	Merchandise imports			Merchandise exports		
	From United States <sup>1</sup>	From other countries	Total	To United States	To other countries	Total
June 30	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>
1901.....	2,855,685	27,423,721	30,279,406	2,572,021	20,642,927	23,214,948
1902.....	4,035,243	28,106,599	32,141,842	7,691,743	16,235,936	23,927,679
1903.....	3,944,098	29,027,784	32,971,882	13,863,059	19,258,721	33,121,780
1904.....	4,633,216	28,587,545	33,220,761	11,102,775	19,147,852	30,250,627
1905.....	5,761,498	25,114,852	30,876,350	15,668,026	16,684,589	32,352,615
1906.....	4,333,893	21,465,373	25,799,266	11,579,411	20,337,723	31,917,134
1907.....	5,155,359	23,630,496	28,785,855	12,079,204	21,634,153	33,713,357
1908.....	5,079,487	25,838,870	30,918,357	10,323,233	22,493,334	32,816,567
1909.....	4,691,770	23,100,627	27,792,397	10,215,331	20,778,232	30,993,563
1910.....	10,775,301	26,292,329	37,067,630	18,741,771	21,122,398	39,864,169
1911.....	19,483,658	30,350,064	49,833,722	16,716,956	23,061,673	39,778,629
1912.....	20,604,155	33,945,825	54,549,980	21,517,777	28,802,059	50,319,836
1913.....	25,387,085	30,940,498	56,327,583	19,848,885	33,834,441	53,683,326
1914.....	28,571,821	27,439,749	56,011,570	22,047,105	29,190,943	51,238,048
1915.....	22,394,381	22,085,480	44,479,861	23,001,275	27,913,786	50,915,061
1916.....	23,804,367	22,169,258	45,973,625	28,638,526	32,825,505	61,464,031
1917.....	27,516,556	24,466,722	51,983,278	43,125,393	28,589,982	71,715,375
1918.....	49,799,229	33,964,061	83,763,290	77,010,233	39,604,378	116,614,611
Dec. 31 <sup>1</sup>						
1918 (6 months).....	31,949,240	21,671,502	53,620,742	50,920,499	24,518,860	75,439,359
1919.....	75,491,415	43,147,637	118,639,052	56,453,173	56,664,660	113,117,833
1920.....	92,289,778	57,148,505	149,438,283	105,216,263	45,907,593	151,123,856
1921.....	74,130,015	41,708,559	115,838,574	50,356,793	37,738,530	88,115,323
1922.....	47,738,326	32,459,319	80,197,645	64,111,601	31,471,697	95,583,298
1923.....	50,352,535	37,447,212	87,799,747	85,047,023	35,705,967	120,752,990
1924.....	60,399,380	47,611,515	108,010,895	97,313,903	38,030,760	135,344,663
1925.....	69,297,583	50,435,251	119,732,834	109,044,942	39,832,263	148,877,205
1926.....	71,575,618	47,723,374	119,298,992	100,003,215	36,881,105	136,884,320
1927.....	71,478,287	44,373,175	115,851,472	116,038,250	39,535,835	155,574,085
1928.....	83,858,000	50,799,000	134,657,000	115,586,000	39,469,000	155,055,000

<sup>1</sup> The discrepancy between the United States figures of exports to the Philippines prior to 1911 and the Philippine figures of imports from the United States in corresponding periods is due chiefly to the fact that the Philippine import figures prior to that year omit merchandise imported free of duty for the use of the Government or for use in construction and equipment of railways in the islands, under the act of Feb. 6, 1905, while the United States returns omit only Government supplies carried by Government vessels.

Sources: Reports of the War Department and Annual Report of the Insular Collector of Customs.

## No. 545.—IMPORTS AND EXPORTS OF AMERICAN SAMOA

Year ended—	Merchandise imports			Merchandise exports		
	From United States	From other countries	Total	To United States	To other countries	Total
June 30:	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>
1916.....	100,507	17,787	118,294	62,062	.....	62,062
1917.....	93,626	16,688	110,314	198,496	.....	198,499
1918.....	94,334	51,565	145,899	118,520	.....	118,520
Dec. 31:						
1918 (6 months).....	66,409	46,033	112,442	136,071	.....	136,071
1919.....	95,329	87,630	182,959	90,421	.....	90,421
1920.....	126,185	99,110	225,295	98,213	.....	98,213
1921.....	127,654	94,833	222,487	117,446	.....	117,446
1922.....	96,317	100,586	196,586	98,216	.....	98,216
1923.....	97,306	101,464	198,860	95,164	.....	95,164
1924.....	91,309	103,053	194,362	102,895	47,385	150,280
1925.....	92,514	99,898	192,412	26,712	123,621	150,333
1926.....	231,052	87,038	318,140	78,033	(1)	(1)
1927.....	120,877	82,491	203,368	40,852	(1)	(1)
1928.....	106,260	98,490	204,750	179,068	(1)	(1)

<sup>1</sup> Not available.

Source: Returns to the Navy Department.



## No. 546.—IMPORTS AND EXPORTS OF THE VIRGIN ISLANDS

NOTE.—For 1910 to 1917, figures for trade with United States cover years ended June 30, for total trade years ended Mar 31; thereafter, all figures cover calendar years

Year (see headnote)	Merchandise imports			Merchandise exports		
	From United States	From foreign countries	Total	To United States	To foreign countries	Total
	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>
1910.....	749, 174	-----	1, 296, 774	403, 926	-----	469, 908
1911.....	810, 557	-----	1, 724, 826	135, 117	-----	543, 526
1912.....	924, 700	-----	1, 683, 072	489, 639	-----	548, 924
1913.....	894, 087	-----	1, 647, 356	48, 031	-----	282, 152
1914.....	890, 966	-----	1, 712, 103	29, 374	-----	331, 188
1915.....	703, 354	-----	1, 318, 769	350, 822	-----	378, 859
1916.....	850, 377	-----	1, 222, 509	63, 496	-----	260, 044
1917.....	1, 438, 904	-----	( <sup>1</sup> )	1, 259, 607	-----	( <sup>1</sup> )
1918.....	1, 640, 103	252, 326	1, 892, 429	1, 137, 501	111, 845	1, 249, 346
1919.....	1, 804, 117	472, 395	2, 276, 512	1, 593, 120	326, 405	1, 919, 525
1920.....	3, 993, 478	862, 619	4, 856, 097	4, 540, 386	208, 963	4, 749, 319
1921.....	2, 622, 396	416, 354	3, 038, 750	734, 674	149, 061	883, 735
1922.....	1, 647, 353	362, 598	2, 009, 951	734, 476	101, 029	835, 505
1923.....	1, 617, 625	323, 142	1, 940, 767	414, 609	99, 433	514, 042
1924.....	1, 668, 495	360, 223	2, 028, 718	394, 085	97, 471	461, 556
1925.....	1, 915, 277	( <sup>1</sup> )	( <sup>1</sup> )	1, 020, 748	( <sup>1</sup> )	( <sup>1</sup> )
1926.....	1, 799, 444	( <sup>1</sup> )	( <sup>1</sup> )	810, 410	( <sup>1</sup> )	( <sup>1</sup> )
1927.....	2, 053, 340	( <sup>1</sup> )	( <sup>1</sup> )	968, 463	( <sup>1</sup> )	( <sup>1</sup> )
1928.....	2, 277, 030	( <sup>1</sup> )	( <sup>1</sup> )	1, 195, 314	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Not available

Sources: Total trade, 1910 to 1915, from Danish Yearbook; 1916, from "The Virgin Islands of the United States of America," by Luther K. Zabriski, all other figures from Bureau of Foreign and Domestic Commerce.

## No. 547.—IMPORTS AND EXPORTS OF GUAM

Year ended—	Merchandise imports			Merchandise exports		
	From United States	From other countries	Total	To United States	To other countries	Total
	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>
June 30						
1916.....	177, 163	79, 785	256, 948	33, 306	29, 007	62, 313
1917.....	114, 301	172, 351	286, 652	46, 972	33, 363	80, 435
1918.....	221, 241	136, 906	358, 147	68, 742	63, 016	131, 758
Dec. 31						
1918 (6 months).....	108, 460	71, 543	180, 003	2, 901	36, 059	38, 860
1919.....	308, 465	138, 716	447, 181	49, 222	15, 330	64, 552
1920.....	234, 960	120, 692	355, 652	28, 432	22, 066	50, 498
1921.....	304, 111	179, 573	483, 684	15, 566	24, 776	40, 342
1922.....	424, 411	171, 709	596, 120	49, 426	13, 505	62, 931
1923.....	456, 824	217, 732	674, 556	77, 109	16, 977	94, 086
1924.....	380, 506	252, 215	632, 721	55, 192	10, 903	66, 095
1925.....	324, 619	261, 216	585, 835	89, 219	10, 735	99, 954
1926.....	275, 230	218, 125	493, 355	86, 298	32, 730	119, 028
1927.....	208, 660	195, 617	404, 277	112, 863	41, 408	154, 271
1928.....	326, 844	334, 420	661, 264	124, 677	117, 855	242, 532

Source: Returns to the Navy Department.

# No. 548.—SHIPMENTS OF PRINCIPAL PRODUCTS TO THE UNITED STATES FROM ALASKA, HAWAII, PORTO RICO, AND THE PHILIPPINE ISLANDS

NOTE.—Totals include items not shown separately For gold shipments from Alaska see Table 541

Territory and product	Quantity			Value (thousands of dollars)			
	1926	1927	1928	1925	1926	1927	1928
<b>ALASKA</b>							
Animals.....number.....	2, 336	1, 295	880	261	178	74	52
Fish.....1,000 lbs.....	371, 317	231, 067	333, 076	36, 129	54, 499	34, 165	51, 316
Halibut, fresh and frozen.....do.....	14, 647	17, 111	13, 195	1, 190	2, 023	2, 283	1, 686
Salmon, fresh and frozen.....do.....	5, 230	5, 503	5, 959	405	632	675	733
Canned salmon.....do.....	322, 917	180, 554	286, 952	28, 706	48, 336	27, 223	45, 549
Cured or preserved fish.....do.....	26, 149	25, 955	25, 213	4, 880	2, 977	3, 530	2, 955
Shellfish.....do.....	1, 687	1, 217	1, 004	814	479	398	390
Other fish products.....							
Meal.....tons <sup>1</sup> .....	10, 412	6, 375	9, 051	432	682	414	664
Oil.....1,000 galls.....	3, 020	2, 033	2, 569	1, 016	1, 350	856	1, 073
Furs and fur skins.....number.....	106, 577	318, 558	342, 482	4, 255	1, 549	4, 266	3, 890
Whale oil.....1,000 galls.....	769	948	726	239	253	219	254
Copper (ore, matte, regulus).....1,000 lbs.....	72, 060	61, 464	45, 350	11, 529	10, 772	8, 510	6, 782
Lead (ore, matte, regulus).....do.....	1, 562	1, 975	2, 106	137	129	133	130
Reindeer meat.....do.....	968	820	1, 318	111	128	88	154
Stone, including marble.....tons <sup>1</sup> .....	12, 291	3, 950	33	116	204	120	123
Wood, timber, and lumber.....M ft.....	8, 528	6, 243	1, 838	256	365	221	68
Total Alaskan products.....				54, 938	70, 595	49, 269	65, 505
Articles produced in U. S. returned.....				1, 799	2, 592	1, 821	1, 950
Total foreign merchandise.....				182	114	258	132
Total, all merchandise.....				56, 919	73, 301	51, 349	67, 587
<b>HAWAII</b>							
Coffee.....1,000 lbs.....	1, 718	5, 435	3, 699	980	472	1, 398	983
Fruits.....				33, 863	34, 229	33, 842	39, 589
Bananas.....bunches.....	247, 536	216, 733	183, 508	246	248	217	185
Pineapples (canned).....1,000 lbs.....	410, 286	408, 161	495, 686	33, 562	33, 928	33, 502	39, 299
Hides and skins.....do.....	1, 422	1, 459	1, 458	163	139	170	238
Honey.....do.....	1, 357	1, 237	1, 680	104	79	65	95
Molasses.....1,000 galls.....	16, 964	13, 868	21, 486	926	763	570	901
Sugar.....							
Unrefined.....1,000 lbs.....	1, 475, 014	1, 525, 626	1, 725, 481	62, 323	57, 953	68, 143	70, 177
Refined.....do.....	19, 247	27, 445	31, 885	978	1, 091	1, 685	1, 859
Total Hawaiian products.....				99, 748	95, 294	106, 370	114, 155
Articles produced in U. S. returned.....				3, 002	2, 939	2, 832	2, 786
Total foreign merchandise.....				30	29	35	16
Total, all merchandise.....				102, 781	98, 261	109, 236	116, 956
<b>PORTO RICO</b>							
Cotton:							
Unmanufactured.....pounds.....	551, 993	652, 062	458, 990	257	217	282	267
Handkerchiefs.....1,000 doz.....	1, 018	954	702	1, 104	1, 036	1, 237	1, 214
Wearing apparel.....1,000 lbs.....	3, 512	3, 935		6, 560	7, 230	7, 248	8, 335
Fruits.....				5, 305	5, 186	6, 817	4, 637
Grapefruit, fresh.....boxes.....	683, 729	879, 428	451, 868	2, 404	2, 061	2, 687	1, 222
Oranges, fresh.....do.....	316, 078	371, 980	354, 618	1, 249	796	903	792
Pineapples, fresh.....crates.....	494, 344	641, 518	499, 097	1, 141	1, 800	1, 925	1, 504
Grapefruit, canned, etc.....1,000 lbs.....	7, 033	10, 627	10, 129	329	674	1, 168	944
Pineapples, canned, etc.....do.....	1, 665	1, 409	2, 281	160	142	117	153
Cocoanuts.....thousands.....	20, 582	22, 578	19, 430	705	567	652	547
Hides and skins.....1,000 lbs.....	357	796	824	58	83	137	186
Honey.....do.....	1, 491	1, 458	1, 265	126	82	84	84
Manganese ore.....tons <sup>1</sup> .....	1, 417	1, 624	1, 523	118	42	42	57
Alcohol, denatured.....galls.....	397, 037	712, 275	754, 815	247	136	311	268
Sugar and molasses.....							
Sugar.....1,000 lbs.....	1, 118, 497	1, 148, 127	1, 322, 386	53, 713	46, 530	55, 337	58, 187
Molasses.....1,000 galls.....	26, 034	16, 697	23, 700	1, 475	932	767	878
Tobacco.....							
Leaf—							
Unstemmed.....1,000 lbs.....	8, 667	6, 626	1, 639	1, 740	5, 045	2, 953	443
Stemmed.....do.....	18, 594	17, 420	15, 936	10, 509	14, 896	11, 554	10, 253
Stems, scraps.....do.....	4, 615	6, 816	8, 191	889	1, 048	1, 191	1, 630
Cigars and cheroots.....thousands.....	177, 501	147, 555	153, 590	7, 739	4, 898	3, 936	3, 824
Cigarettes.....do.....	4, 625	5, 227	5, 368	29	50	52	44
Total Porto Rican products.....				91, 282	88, 872	95, 677	95, 034
Articles produced in U. S. returned.....				1, 391	1, 280	1, 162	2, 167
Total foreign merchandise.....				6	15	64	67
Total, all merchandise.....				92, 680	90, 167	96, 903	97, 269

<sup>1</sup> Of 2,240 pounds.

**No. 548.—SHIPMENTS OF PRINCIPAL PRODUCTS TO THE UNITED STATES FROM ALASKA, HAWAII, PORTO RICO, AND THE PHILIPPINE ISLANDS—Continued**

Territory and product	Quantity			Value (thousands of dollars)			
	1926	1927	1928	1925	1926	1927	1928
<b>PHILIPPINE ISLANDS</b>							
Oil cake and meal (coconut).....1,000 lbs.	36, 598	36, 170	22, 743	407	417	432	355
Coconut meat prepared.....do	28, 864	33, 994	46, 696	2, 383	2, 683	3, 041	4, 005
Copra.....do	275, 696	341, 389	371, 889	13, 999	14, 037	15, 113	16, 548
Coconut oil.....do	245, 129	293, 370	290, 637	19, 650	22, 088	22, 900	23, 061
Rubber, crude.....do	311	323	373	63	106	105	124
Leaf tobacco.....do	908	1, 611	3, 737	187	197	263	521
Cigars and cheroots.....do	3, 021	2, 645	2, 574	5, 133	5, 047	4, 142	4, 190
Cotton wearing apparel.....do				3, 959	5, 422	3, 521	3, 639
Cordage.....do	6, 571	5, 693	5, 903	979	893	838	781
Manila fiber.....tons <sup>1</sup>	69, 005	51, 210	46, 227	18, 091	18, 213	13, 075	9, 367
Boards, planks, and deals.....M ft.	362	112	283	13	20	5	11
Sawed cabinet woods.....do	26, 347	32, 931	33, 881	1, 350	1, 225	1, 634	1, 358
Chair cane or reed.....M lbs.	15			(2)	3		
Articles produced in U. S. returned.....				446	262	284	356
<b>Total, all merchandise.....</b>				<b>111, 820</b>	<b>103, 797</b>	<b>115, 980</b>	<b>115, 609</b>

<sup>1</sup> Of 2,240 pounds.<sup>2</sup> Less than \$500.

Source. Bureau of Foreign and Domestic Commerce.

**No. 549.—SHIPMENTS OF MERCHANDISE FROM THE UNITED STATES TO ALASKA, HAWAII, PORTO RICO, AND THE PHILIPPINE ISLANDS: VALUES**

NOTE.—Values in thousands of dollars. Totals include items not shown separately

Commodity group or item	Alaska		Hawaii		Porto Rico		Philippine Islands	
	1927	1928	1927	1928	1927	1928	1927	1928
<b>Total merchandise.....</b>	<b>35, 604</b>	<b>32, 059</b>	<b>79, 630</b>	<b>77, 824</b>	<b>36, 327</b>	<b>31, 981</b>	<b>69, 394</b>	<b>79, 648</b>
<b>Animals and Animal Products.....</b>	<b>4, 547</b>	<b>4, 567</b>	<b>6, 510</b>	<b>6, 910</b>	<b>13, 832</b>	<b>12, 327</b>	<b>6, 681</b>	<b>7, 056</b>
Meats.....	1, 943	1, 920	1, 726	1, 968	4, 247	3, 973	422	460
Eggs.....	558	582	494	578	64	68	1	3
Milk, condensed, evaporated, etc.....	499	461	792	725	658	601	2, 617	3, 023
Butter and cheese.....	832	841	762	834	709	507	137	168
Fish.....	115	103	928	981	1, 558	708	1, 826	1, 634
Animal fats and oils, edible.....	106	109	227	180	2, 414	2, 717	50	57
Boots and shoes.....	194	198	838	832	3, 511	3, 128	623	245
Other leather manufactures.....	44	55	278	299	251	239	183	159
<b>Vegetable Food Products and Beverages.....</b>	<b>4, 513</b>	<b>4, 372</b>	<b>12, 017</b>	<b>11, 649</b>	<b>19, 178</b>	<b>18, 405</b>	<b>6, 322</b>	<b>7, 379</b>
Grains and preparations.....	856	874	5, 444	5, 061	12, 799	11, 658	4, 059	4, 755
Rice.....	80	86	3, 567	2, 947	8, 514	7, 317	3	9
Wheat flour.....	395	386	974	942	2, 888	2, 549	3, 878	4, 557
Biscuits and crackers.....	170	177	112	137	657	549	33	104
Vegetables.....	816	832	1, 445	1, 440	3, 300	3, 290	418	580
Potatoes.....	187	119	329	215	667	680	14	29
Canned vegetables.....	319	319	520	349	221	197	164	265
Fruits.....	939	855	1, 333	1, 418	494	411	844	910
Oranges.....	134	132	472	505	(1)	(1)	223	242
Apples.....	109	92	163	180	53	49	196	187
Canned and preserved fruits.....	394	349	282	328	290	215	154	132
Coffee.....	385	408	114	137	38	740	291	283
Sugar.....	445	435	258	123	63	28	29	52
Confectionery.....	323	324	624	497	611	459	209	233
Beverages and fruit juices.....	141	158	123	206	424	451	49	58
<b>Vegetable Products, Inedible, Except Fibers and Wood.....</b>	<b>1, 344</b>	<b>1, 286</b>	<b>4, 709</b>	<b>4, 494</b>	<b>4, 347</b>	<b>4, 767</b>	<b>5, 116</b>	<b>6, 016</b>
Rubber manufactures.....	434	400	2, 184	1, 982	1, 495	1, 447	2, 956	2, 910
Boots and shoes <sup>2</sup> .....	215	210	76	95	395	298	623	946
Automobile tires:								
Casings.....	54	42	1, 391	1, 235	704	726	1, 394	1, 205
Inner tubes.....	9	7	227	170	84	90	223	195
Belting, hose, and packing.....	134	124	139	116	62	72	197	192
Tobacco:								
Leaf.....	3	(1)	(1)	(1)	1, 164	915	633	736
Cigars and cheroots.....	194	204	196	136	26	13		
Cigarettes.....	356	369	1, 348	1, 431	1, 265	1, 949	1, 129	1, 772
Smoking.....	177	154	718	622	47	44	23	14

<sup>1</sup> Less than \$500.<sup>2</sup> Includes canvas shoes with rubber soles.

## No. 549.—SHIPMENTS OF MERCHANDISE FROM THE UNITED STATES TO ALASKA, HAWAII, PORTO RICO, AND THE PHILIPPINE ISLANDS: VALUES—Continued

[Values in thousands of dollars]

Commodity group or item	Alaska		Hawaii		Porto Rico		Philippine Islands	
	1927	1928	1927	1928	1927	1928	1927	1928
<b>Textiles</b> .....	3, 136	2, 932	7, 602	6, 827	16, 049	14, 988	15, 408	16, 059
Sewing, crochet, and embroidery cotton.....	10	11	137	111	509	465	489	521
Cotton cloth.....	115	142	1, 578	1, 470	6, 285	6, 432	11, 346	12, 199
Cotton wearing apparel.....	541	512	1, 048	1, 112	3, 056	3, 082	474	378
Bags of jute.....	121	89	606	284	493	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Cordage and twine.....	653	765	93	66	200	159	2	1
Wool wearing apparel.....	367	408	400	469	527	427	69	35
Other wool manufactures.....	166	100	245	344	193	81	171	164
Silk manufactures.....	105	103	946	865	429	455	550	596
<b>Wood and Paper</b> .....	2, 138	1, 740	6, 273	6, 173	5, 324	5, 187	1, 741	1, 878
Logs and timber.....	165	193	119	194	150	329	33	25
Boards, planks, and deals.....	545	466	1, 798	1, 789	1, 918	1, 980	79	111
Box shooks.....	533	305	707	593	461	369	35	30
Cooperage shooks.....	170	130	2	23	34	60		
Wood furniture.....	136	86	575	619	758	684	43	29
Paper and manufactures.....	286	290	2, 101	2, 153	1, 538	1, 388	1, 233	1, 335
<b>Nonmetallic Minerals</b> .....	2, 694	2, 661	11, 020	9, 668	4, 558	4, 333	5, 883	7, 890
Coal.....	327	306	53	31	275	161	52	5
Petroleum and products.....	1, 884	1, 950	8, 489	7, 459	2, 901	3, 061	5, 245	7, 093
Gasoline.....	916	1, 183	3, 685	3, 827	828	1, 300	2, 287	3, 000
Illuminating oil.....	94	85	696	655	465	402	1, 313	2, 287
Gas and fuel oil.....	559	370	3, 207	1, 939	1, 056	663	743	590
Lubricating oil.....	277	281	754	739	474	457	726	987
<b>Metals and manufactures, except Machinery and Vehicles</b> .....	9, 487	8, 167	10, 737	10, 278	6, 070	6, 285	8, 160	9, 673
Iron and steel.....	9, 042	7, 811	9, 255	8, 794	5, 421	5, 386	6, 997	7, 519
Steel bars.....	86	73	172	291	178	170	119	146
Iron and steel plates.....	21	12	104	99	44	30	113	154
Galvanized sheets.....	74	75	133	212	860	1, 166	2, 028	2, 169
Tin plates.....	1, 792	864	3, 332	3, 519	17	14	447	602
Structural forms.....	107	20	228	272	168	347	323	616
Cast pipe and fittings.....	117	28	913	1, 008	468	626	180	329
Wire.....	1, 167	949	348	356	216	258	556	217
Wire nails.....	101	72	97	108	72	190	139	174
Cutlery.....	18	15	117	106	124	139	67	83
Tin cans, finished or unfinished.....	3, 490	3, 974	54	47	312	145	3	3
Enameled iron and steel.....	58	53	197	184	220	207	70	87
Stoves, ranges, furnaces.....	233	221	272	311	66	42	43	47
Tools.....	128	131	200	230	155	185	324	365
Copper.....	72	66	351	501	241	443	399	536
<b>Machinery and Vehicles</b> .....	5, 002	3, 789	11, 843	11, 482	7, 770	7, 051	11, 478	14, 726
Engines.....	685	632	582	502	376	380	943	1, 485
Electrical machinery and appliances.....	647	701	1, 665	1, 705	818	801	1, 526	1, 411
Agricultural machinery.....	80	92	558	370	403	445	343	533
Other machinery.....	2, 868	1, 727	2, 639	2, 719	2, 185	1, 860	3, 598	5, 316
Motor trucks and busses.....	78	82	824	837	797	765	908	1, 371
Passenger automobiles.....	373	336	3, 983	3, 758	1, 953	1, 726	2, 660	2, 773
Automobile parts and accessories, except engines and tires.....	126	113	796	858	545	497	747	768
<b>Chemicals and Related Products</b> .....	1, 259	1, 189	4, 657	5, 270	6, 428	5, 843	4, 745	4, 931
Chemicals.....	506	238	1, 174	1, 201	1, 770	1, 518	1, 117	1, 502
Medicinal and pharmaceutical preparations.....	249	242	380	488	911	971	695	721
Paints, pigments, and varnishes.....	227	216	929	979	517	563	562	637
Explosives.....	367	328	154	141	25	32	92	149
Fertilizers.....	2	3	1, 542	1, 927	2, 494	2, 213	1, 305	1, 229
Soap.....	125	162	688	627	1, 197	1, 133	974	1, 413
<b>Miscellaneous</b> .....	1, 505	1, 387	4, 082	5, 012	2, 777	2, 780	3, 860	4, 040
Motion-picture films.....	82	143	63	67	118	77	81	68
Musical instruments.....	134	168	724	988	370	335	452	509
Toys.....	51	53	181	185	245	128	61	84
Athletic and sporting goods.....	43	77	174	180	24	26	78	149
Books, pictures, and other printed matter.....	433	284	1, 180	1, 381	504	450	1, 466	1, 195
Household and personal effects.....	170	121	492	330	199	197	88	112

<sup>1</sup> Less than \$500

Source Bureau of Foreign and Domestic Commerce.

## 24.—IRRIGATION AND DRAINAGE

GENERAL NOTE.—Data in this section cover irrigation and drainage enterprises in continental United States. "Government irrigation" tables relate only to works of the Bureau of Reclamation or to lands served in whole or in part by works controlled by the bureau (for area so served in 1927, see Table 555). Tables 559 to 564 relate to irrigation enterprises of all sorts as reported to the Bureau of the Census.

### No. 550.—GOVERNMENT IRRIGATION PROJECTS: CONSOLIDATED FINANCIAL STATEMENT, JUNE 30, 1928

#### DEBIT SIDE

Construction account, primary projects			
Cost of irrigation works—			
Original construction.....	\$166,864,907		
Supplemental construction.....	9,765,702		
Value of works taken over.....	2,057,428		
Total construction cost.....		\$178,688,038	
Operation and maintenance prior to public notice (net).....	2,523,387		
Operation and maintenance deficits and arrearages and penalties on water-right charges funded with construction..	5,102,806		
		7,626,193	
Less—		186,314,231	
Abandoned works and nonreimbursable cost (net).....	13,235,395		
Construction revenues.....	5,723,303		
Contributed funds.....	1,248,814		
		20,207,512	
Balance repayable.....			\$166,106,719
Yuma auxiliary project: Cost of irrigation works less construction revenues.....			875,181
Secondary projects and general investigations: Cost of investigations less contributed funds.....			2,238,278
Operation and maintenance results (charges in excess of net costs). Plant and equipment.....			187,407
Materials and supplies.....			949,613
Current accounts receivable due.....		3,979,500	
Deferred accounts receivable not due.....		151,439,509	
			155,419,008
Prepaid civil service retirement fund.....			2,340
General office expense undistributed.....			449,767
Unadjusted debits.....			33,296
Cash and collections in transit.....			9,471,565
Total debits.....			335,985,423

#### CREDIT SIDE

Security for repayment of cost of irrigation works			
Contracted construction repayments.....		\$182,130,131	
Yuma auxiliary contracted repayments.....		712,785	
			\$182,842,916
Current accounts payable.....			1,664,791
Unapplied credits: Forfeitures, penalties, hospital, rentals from withdrawn lands, etc.....			4,548,234
Unadjusted credits.....			83,432
Government aid for reclamation of arid lands.			
Reclamation fund.....		143,741,594	
Special funds—			
Judgments, Court of Claims.....		599,651	
Rio Grande Dam.....		1,000,000	
General investigations, 1923–Dec. 31, 1924.....		275,000	
Increase of compensation.....		2,797,960	
Wind River Indian (Riverton).....		359,176	
Drainage and cut-over lands.....		99,815	
Arid, semiarid, swamp, and cut-over timberlands.....		30,000	
Columbia Basin irrigation project.....		25,000	
Colorado River levee system.....		100,000	
Advances to reclamation fund (bond loan) less amount repaid.....		12,000,000	
Total.....		161,028,196	
Less nonreimbursable appropriation, Rio Grande Dam.....		1,000,000	
		160,028,196	
Less impairment of funds—			
Abandoned construction works.....	\$1,361,970		
Nonreimbursable construction cost.....	419,645		
Operation and maintenance cost, uncollectible.....	453,291		
Charge-offs, act of May 25, 1926.....	10,947,241		
		13,182,147	
Total credits.....			146,846,049
			335,985,423

Source: Bureau of Reclamation, Department of the Interior.

**No. 551.—GOVERNMENT IRRIGATION PROJECTS: CONSTRUCTION COST, OTHER REIMBURSABLE COST, AND AMOUNT TO BE REPAYED BY WATER USERS, TOTALS TO JUNE 30, 1928**

State and project	Construction cost	Operation and maintenance cost before public notice (net)	Operation and maintenance deficits and arrearages	Deductions		Total to be repaid by water users
				Construction revenues and contributed funds	Abandoned works, nonreimbursable cost, etc	
Total	Dollars 178, 688, 038	Dollars 2, 523, 387	Dollars 5, 102, 806	Dollars 6, 972, 117	Dollars 13, 235, 395	Dollars 166, 106, 719
Arizona: Salt River	12, 744, 223	115, 994	---	2, 312, 097	<sup>3</sup> 1, 382, 097	10, 166, 022
Arizona-California: Yuma	9, 292, 699	374, 571	2, 922	190, 902	---	9, 479, 290
California: Orland	2, 245, 477	<sup>2</sup> 12, 384	---	21, 758	---	2, 211, 400
Colorado:						
Grand Valley	4, 768, 278	138, 621	---	54, 719	<sup>3</sup> 812, 375	4, 029, 806
Uncompahgre	6, 438, 177	298, 906	---	24, 224	<sup>3</sup> 47, 370	6, 665, 488
Idaho:						
American Falls	7, 650, 030	<sup>2</sup> 504	---	29, 067	---	7, 620, 459
Boise	14, 497, 671	422, 283	873, 493	332, 390	---	15, 461, 058
King Hill	1, 905, 319	---	110, 123	28, 238	---	1, 987, 203
Minidoka	6, 880, 057	177, 460	359, 944	1, 668, 871	---	5, 728, 580
Minidoka gravity extension	52, 924	---	---	1, 000	---	51, 924
Kansas: Garden City	342, 964	52, 808	---	61, 357	<sup>3</sup> 334, 475	---
Montana:						
Huntley	1, 565, 304	<sup>2</sup> 1, 199	64, 216	18, 112	<sup>3</sup> 62, 050	1, 548, 159
Milk River	6, 758, 308	437, 594	68, 328	80, 252	<sup>3</sup> 1, 911, 189	5, 272, 788
Sun River	5, 525, 597	135, 526	70, 368	43, 337	---	5, 688, 154
Montana-North Dakota: Lower Yellowstone	3, 258, 870	<sup>2</sup> 2, 019	902, 197	47, 848	<sup>3</sup> 382, 254	3, 728, 046
Nebraska-Wyoming: North Platte	19, 133, 179	704, 514	1, 508, 453	540, 751	<sup>3</sup> 30, 322	20, 770, 072
Nevada: Newlands	7, 847, 750	<sup>2</sup> 2, 669	20, 405	52, 347	<sup>3</sup> 4, 437, 820	3, 375, 329
New Mexico:						
Carlsbad	1, 464, 523	<sup>2</sup> 16, 607	1, 934	24, 953	---	1, 424, 896
Hondo	339, 492	32, 952	---	656	<sup>4</sup> 371, 788	---
New Mexico-Texas: Rio Grande	14, 735, 174	<sup>2</sup> 516, 738	---	230, 341	<sup>3</sup> 1, 205, 676	12, 982, 423
North Dakota:						
Buford-Trenton	223, 423	<sup>2</sup> 32	---	1, 968	<sup>4</sup> 221, 424	---
Williston	517, 630	<sup>2</sup> 165	---	83, 182	<sup>4</sup> 434, 284	---
Oregon:						
Baker	66, 317	---	---	5, 000	---	61, 317
Umatilla	5, 165, 783	<sup>2</sup> 11, 772	129, 870	30, 115	<sup>3</sup> 888, 341	4, 365, 426
Vale	532, 184	---	---	5, 000	---	527, 184
Oregon-California: Klamath	5, 376, 418	71, 142	3, 712	307, 579	<sup>3</sup> 7, 417	5, 136, 276
Oregon-Idaho: Owyhee	913, 835	---	---	4, 355	---	909, 481
South Dakota: Belle Fourche	3, 624, 183	<sup>2</sup> 1, 989	506, 437	16, 565	---	4, 112, 065
Utah:						
Salt Lake Basin	674, 464	---	---	18, 570	---	655, 894
Strawberry Valley	3, 507, 423	10, 744	71, 455	236, 509	---	3, 358, 114
Washington:						
Okanogan	1, 447, 561	<sup>2</sup> 47, 767	25, 194	6, 631	---	1, 418, 358
Yakima	14, 406, 768	<sup>2</sup> 68, 958	83, 327	350, 222	<sup>3</sup> 4, 215	14, 071, 701
Yakima-Kittitas	2, 365, 624	---	---	1, 071	---	2, 364, 553
Wyoming:						
Riverton	2, 968, 057	6, 973	---	<sup>2</sup> 6, 162	---	2, 981, 193
Shoshone	9, 492, 355	20, 974	305, 429	158, 298	<sup>3</sup> 1, 702, 299	7, 958, 161

<sup>1</sup> Nonreimbursable cost. <sup>2</sup> Contra. <sup>3</sup> Authorized charge-offs, act of May 25, 1926. <sup>4</sup> Abandoned works.

<sup>5</sup> Nonreimbursable cost, \$1,000,000, authorized charge-offs, \$205,676

Source: Bureau of Reclamation, Department of the Interior.

**No. 552.—GOVERNMENT IRRIGATION PROJECTS: OPERATION AND MAINTENANCE COST AND RETURNS DURING 1927 (CALENDAR YEAR)**

State and project	Operation and maintenance cost	Operation and maintenance returns				Other credits <sup>1</sup>	Results Excess (+) or deficit (—)
		Charges contracted	Penalties	Discounts (contra)	Miscellaneous revenues		
Total	Dollars 1, 782, 122	Dollars <sup>2</sup> 808, 591	Dollars <sup>2</sup> 95, 516	Dollars 13, 350	Dollars 79, 092	Dollars 2, 324, 555	Dollars —296, 024
Arizona: Yuma auxiliary	29, 921	43, 010	---	---	1, 101	---	+14, 190
Arizona-California: Yuma	462, 493	316, 579	11, 844	6, 043	10, 318	---	—129, 795
California: Orland	30, 904	35, 155	300	1, 309	121	---	—3, 362
Colorado: Uncompahgre	132, 773	<sup>2</sup> 2, 809	3, 275	76	2, 575	---	—129, 808
Idaho:							
Boise	26, 231	<sup>2</sup> 588, 174	<sup>3</sup> 31, 183	---	<sup>2</sup> 24, 123	591, 231	—78, 425
Boise (drainage)	---	<sup>2</sup> 214, 046	2	---	---	---	—214, 044

<sup>1</sup> Amounts to be paid with construction and charge-offs under act of May 25, 1926. <sup>2</sup> Contra.

**No. 552.—GOVERNMENT IRRIGATION PROJECTS: OPERATION AND MAINTENANCE COST AND RETURNS DURING 1927 (CALENDAR YEAR)—Continued**

State and project	Operation and maintenance cost	Operation and maintenance returns				Other credits <sup>1</sup>	Results Excess (+) or deficit (—)
		Charges contracted	Penalties	Dis-counts (contra)	Miscellaneous revenues		
	Dollars	Dollars	Dollars	Dollars	Dollars	Dollars	Dollars
Idaho—Continued							
King Hill	-----	<sup>2</sup> 1				<sup>1</sup>	
Minidoka	49, 074	<sup>2</sup> 24, 981	125		583	247, 430	—25, 916
Montana:							
Huntley	31, 933	169		28	724	33, 335	+3, 044
Milk River	44, 382	29, 875	778	420	717	64, 984	+50, 774
Sun River	19, 823	<sup>2</sup> 55, 658	<sup>2</sup> 556	26	6, 285	75, 962	+26, 404
Montana-North Dakota: Lower							
Yellowstone	43, 503	104, 123			1, 498	<sup>2</sup> 52, 229	+29, 889
Nebraska-Wyoming: North Platte	40, 087	<sup>2</sup> 686, 855	<sup>2</sup> 79, 211		1, 163	892, 849	+87, 880
Nevada: Newlands	264	<sup>2</sup> 189, 915	<sup>2</sup> 244	42		210, 724	+70, 259
New Mexico: Carlsbad	45, 056	42, 214	1, 113	1, 518	2, 520		—727
New Mexico-Texas: Rio Grande	341, 216	303, 617	2, 545		35, 055		
North Dakota: Williston	1						
Oregon: Umatilla	2, 130	<sup>2</sup> 87, 661	24	4	108	17, 638	—72, 024
Oregon-California: Klamath	75, 965	90, 952	139	70	32, 040		+47, 096
South Dakota: Belle Fourche	77, 293	75, 000			2, 121		—171
Utah: Strawberry Valley	-----	<sup>2</sup> 28, 673	158	72		27, 825	—762
Washington:							
Okanogan	40, 451	30, 000	8	6	375		—10, 074
Yakima	264, 484	252, 099	9, 530	3, 738	4, 078	<sup>2</sup> 769	+3, 313
Wyoming: Shoshone	24, 141	<sup>2</sup> 122, 681	<sup>2</sup> 14, 487	<sup>2</sup> 1	1, 834	195, 510	+36, 136

<sup>1</sup> Amounts to be paid with construction and charge-offs under act of May 25, 1926

<sup>2</sup> Contra

**No. 553.—GOVERNMENT IRRIGATION PROJECTS: OPERATION AND MAINTENANCE COST, ETC., AND EXCESS OR DEFICIT, TOTALS TO DECEMBER 31, 1927**

State and project	Operation and maintenance cost	Operation and maintenance returns				Other credits <sup>1</sup>	Results Excess (+) or deficit (—)
		Charges contracted	Penalties	Dis-counts (contra)	Miscellaneous revenues		
	Dollars	Dollars	Dollars	Dollars	Dollars	Dollars	Dollars
Total	28, 110, 321	21, 680, 034	445, 951	332, 811	1, 533, 257	4, 848, 217	+52, 327
Arizona: Yuma auxiliary	230, 694	260, 423	538	1, 107	2, 937		+32, 096
Arizona-California: Yuma	3, 433, 475	3, 417, 141	82, 019	40, 254	146, 539	2, 922	+174, 938
California: Orland	351, 637	381, 327		15, 726	2, 410		+17, 199
Colorado: Uncompahgre	688, 525	566, 496	14, 023	11, 606	12, 639		—106, 974
Idaho:							
Boise	2, 199, 659	1, 542, 457	31, 158	46, 526	111, 045	600, 930	+39, 404
Boise (drainage)	506, 005	473, 687	38, 612	6, 123			+170
King Hill	156, 734	60, 711		1, 519	343	97, 199	
Minidoka	1, 915, 975	1, 544, 074	29, 463	22, 342	99, 745	268, 060	+3, 026
Montana:							
Huntley	1, 014, 728	563, 504	15, 710	10, 450	11, 597	44, 316	—390, 051
Milk River	101, 043	48, 678		618	1, 819	64, 984	+13, 820
Sun River	261, 302	156, 898	6, 355	3, 468	9, 308	92, 336	+126
Montana-North Dakota: Lower							
Yellowstone	1, 134, 771	174, 178	3	5	129, 025	861, 460	+29, 889
Nebraska-Wyoming: North Platte	2, 676, 623	1, 775, 512	31, 085	35, 812	28, 234	1, 043, 332	+165, 729
Nevada: Newlands	1, 453, 191	1, 190, 386	28, 585	24, 970	26, 013	227, 168	—6, 009
New Mexico: Carlsbad	691, 054	674, 260	26, 583	12, 958	21, 084	1, 934	+19, 848
New Mexico-Texas: Rio Grande	1, 910, 216	1, 824, 695	5, 463	4, 486	84, 545		
North Dakota:							
Buford-Trenton	74, 781	2, 317			10	72, 454	
Williston	904, 662	34, 043	46		489, 736	380, 837	—90, 445
Oregon: Umatilla	680, 345	337, 366	7, 776	3, 314	59, 810	208, 266	+24, 162
Oregon-California: Klamath	931, 734	901, 783	3, 426	4, 942	51, 917		+109, 184
South Dakota: Belle Fourche	1, 311, 647	865, 722	31, 955	9, 242	18, 958	506, 437	—11, 381
Utah: Strawberry Valley	437, 856	377, 019	9, 468	11, 859	20, 400	31, 447	
Washington:							
Okanogan	623, 410	522, 553	1, 451	385	70, 141	25, 194	—4, 456
Yakima	3, 553, 269	3, 409, 958	67, 709	44, 046	111, 661	76, 603	+68, 606
Wyoming: Shoshone	866, 979	556, 838	13, 710	11, 053	43, 303	236, 624	—27, 556

<sup>1</sup> Includes deficits uncollectible: Sun River, \$34, 145, Newlands, \$211, 292; Buford-Trenton, \$72, 454; Williston, \$380, 837, Umatilla, \$91, 083, Shoshone, \$21, 373; total, \$811, 187. Other data are amounts to be repaid with construction

Sources of Tables 552 and 553, Bureau of Reclamation, Department of the Interior.

No. 554.—GOVERNMENT IRRIGATION PROJECTS: VOUCHER TRANSACTIONS,  
ALL FUNDS, AND NET INVESTMENT

State and project	Expenditures <sup>1</sup>		Collections <sup>1</sup>		Net investment	
	During fiscal year 1928	Total to June 30, 1928	During fiscal year 1928	Total to June 30, 1928	During fiscal year 1928	Total to June 30, 1928
	Dollars	Dollars	Dollars	Dollars	Dollars	Dollars
<b>Total</b> .....	<b>8, 638, 986</b>	<b>230, 213, 082</b>	<b>6, 181, 634</b>	<b>73, 621, 920</b>	<b>2, 455, 362</b>	<b>151, 591, 182</b>
Arizona.....						
Salt River.....		14, 671, 593	710, 317	7, 921, 761	<sup>2</sup> 710, 317	6, 749, 832
Yuma auxiliary.....	28, 203	949, 315	33, 413	926, 666	<sup>2</sup> 5, 210	22, 649
Arizona-California Yuma.....	368, 622	14, 380, 208	842, 881	7, 258, 949	<sup>2</sup> 474, 269	7, 121, 259
California Orland.....	792, 985	2, 762, 732	108, 658	1, 103, 823	684, 327	1, 658, 909
Colorado.....						
Grand Valley.....	62, 259	5, 475, 664	81, 810	667, 910	<sup>2</sup> 19, 551	4, 807, 754
Uncompahgre.....	128, 026	8, 788, 704	182, 236	2, 330, 023	<sup>2</sup> 84, 210	6, 458, 681
Idaho.....						
American Falls.....	291, 004	8, 166, 453	49, 506	3, 921, 456	241, 408	4, 244, 997
Boise.....	143, 402	18, 814, 335	490, 872	6, 374, 573	<sup>2</sup> 347, 410	12, 439, 762
King Hill.....	420	2, 109, 865	335	129, 506	85	1, 980, 359
Minidoka.....	177, 330	9, 592, 921	482, 073	7, 063, 706	<sup>2</sup> 304, 693	2, 529, 215
Minidoka-Gravity.....	33, 085	54, 778		1, 000	33, 085	53, 778
Kansas.....						
Garden City.....		390, 496		58, 002		332, 494
Montana.....						
Huntley.....	48, 729	2, 594, 686	44, 477	1, 057, 548	4, 252	1, 537, 138
Milk River.....	44, 856	7, 697, 598	49, 286	525, 641	<sup>2</sup> 4, 480	7, 171, 957
Sun River.....	778, 390	5, 977, 452	55, 269	658, 998	723, 121	5, 318, 454
Montana-North Dakota Lower						
Yellowstone.....	116, 257	4, 459, 550	75, 337	576, 919	40, 920	3, 882, 631
Nebraska-Wyoming North Platte	492, 448	23, 105, 631	505, 794	5, 509, 315	<sup>2</sup> 13, 346	17, 596, 316
Nevada Newlands.....	135, 563	9, 589, 669	117, 724	2, 449, 732	17, 839	7, 139, 937
New Mexico.....						
Carlsbad.....	47, 458	2, 227, 534	120, 471	1, 509, 822	<sup>2</sup> 73, 018	717, 712
Hondo.....		406, 744	40	34, 957	<sup>2</sup> 40	371, 787
New Mexico-Texas. Rio Grande	786, 810	18, 481, 867	713, 121	5, 081, 054	73, 689	13, 430, 813
North Dakota.....						
Burlington-Trenton.....		311, 175		17, 874		293, 301
Williston.....		1, 420, 674	7, 616	578, 655	<sup>2</sup> 7, 616	842, 019
Oregon.....						
Baker.....	2, 341	66, 944		5, 879	2, 341	61, 065
Vale.....	348, 673	513, 514	188	5, 188	348, 485	508, 326
Umatilla.....	13, 777	6, 065, 502	78, 209	1, 126, 215	<sup>2</sup> 64, 432	4, 939, 287
Oregon-California Klamath.....	202, 679	6, 552, 799	205, 811	2, 151, 285	<sup>2</sup> 5, 138	4, 401, 614
Oregon-Idaho: Owyhee.....	628, 363	825, 657	1, 217	5, 607	627, 146	820, 050
South Dakota: Belle Fourche.....	115, 932	4, 993, 179	69, 156	1, 265, 405	46, 776	3, 727, 774
Utah.....						
Salt Lake Basin.....	510, 701	566, 104	16, 326	16, 326	494, 375	549, 778
Strawberry Valley.....	316	4, 332, 840	144, 157	1, 947, 630	<sup>2</sup> 143, 841	2, 385, 210
Washington.....						
Okanogan.....	33, 067	2, 130, 349	61, 527	670, 144	<sup>2</sup> 27, 580	1, 460, 205
Yakima.....	271, 474	18, 557, 817	796, 450	9, 609, 397	<sup>2</sup> 524, 976	8, 948, 420
Yakima-Kittitas.....	1, 614, 382	2, 146, 613	728	32, 049	1, 613, 654	2, 114, 564
Wyoming.....						
Riverton.....	52, 656	3, 563, 967	14, 414	111, 128	38, 242	3, 452, 839
Shoshone.....	117, 489	10, 574, 114	100, 951	1, 646, 472	16, 538	8, 927, 612
Secondary.....	40, 521	2, 323, 301	10, 003	732, 981	30, 518	1, 690, 320
Denver office <sup>3</sup> .....	<sup>3</sup> 3, 903	218, 451	2, 431	183, 647	<sup>2</sup> 12, 394	34, 804
Field legal <sup>3</sup> .....	1, 216	11, 360	65	7, 871	1, 151	3, 489
Washington office <sup>3</sup> .....	145, 347	820, 041	5, 255	349, 484	140, 062	470, 557
Adjustments surveys, subsection K.....	81	85, 674			81	85, 674
Economic investigations.....	8, 838	9, 727			8, 838	9, 727
Examination and inspection of projects.....	5, 505	5, 505	3, 390	3, 390	2, 115	2, 115
Attendance at meetings.....	344	344			344	344
Contingent expenses, Int. Dept.....	9, 000	9, 000			9, 000	9, 000
Indian projects <sup>4</sup> .....		2, 997, 829		2, 997, 829		2, 340
Civil-service retirement fund <sup>5</sup> .....		2, 340				100, 544
Drainage and cut over.....		100, 544				220, 198
General investigations.....	117	246, 301		26, 103	117	
Arid, semiarid, and swamp cut-over lands.....	14, 795	27, 123			14, 795	27, 123
Columbia Basin investigations.....	6, 875	10, 946			6, 875	10, 946
Colorado River front work and levee system.....	25, 553	25, 553			25, 553	25, 553

<sup>1</sup> Collections creditable to increase of compensation, Rio Grande Dam appropriation and Wind River Indian (River-ton) drainage and cut over; general investigations, Reclamation Service, 1923-Dec 31, 1924; arid, semiarid, swamp, and cut-over timberland; Colorado River front work and levee system; and Columbia Basin are included in the expenditure column as contra.

<sup>2</sup> Decrease

<sup>3</sup> Net amounts not transferred to projects

<sup>4</sup> Expended from reclamation fund and later reimbursed by congressional appropriation.

<sup>5</sup> Amount transferred from reclamation fund less amount deducted from pay of employees.

Source: Bureau of Reclamation, Department of the Interior.



**No. 555.—GOVERNMENT IRRIGATION PROJECTS: ACREAGE IRRIGABLE, IRRIGATED, AND CROPPED, AND VALUE OF CROPS, 1927<sup>1</sup>**

NOTE.—See general note, p. 599. "Other lands served by Government works" are those usually furnished with a partial water supply through private canals under Warren Act contracts

State and project	Lands in projects proper				Other lands served by Government works			
	Irrigable acreage <sup>2</sup>	Irrigated acreage	Cropped acreage	Crop value	Irrigable acreage	Irrigated acreage	Cropped acreage	Crop value
Total.....	1,956,910	1,378,990	1,326,810	<i>Dollars</i> 70,985,450	1,482,950	1,148,115	1,072,486	<i>Dollars</i> 81,160,010
Arizona: Salt River.....	243,440	<sup>3</sup> 243,440	216,940	21,188,750	92,700	13,400	13,000	1,269,700
Arizona-California.....								
Yuma.....	62,950	51,870	50,780	3,201,810				
Yuma, auxiliary (Mesa).....	3,810	1,070	450	54,970				
California: Orlando.....	20,750	14,680	13,340	740,990				
Colorado:								
Grand Valley.....	30,380	13,650	12,500	447,565	18,350	13,000	12,300	1,878,000
Uncompahgre.....	75,780	59,380	59,280	1,021,820	1,315	1,152	1,150	36,725
Idaho:								
Boise.....	281,940	156,070	147,115	4,941,670	134,800	127,000	120,000	4,150,000
King Hill.....	10,000	6,630	6,460	190,560				
Minidoka.....	121,580	103,290	96,910	3,339,750	773,350	659,300	593,500	30,444,000
Gravity division.....		58,110	54,340	1,886,660				
Pumping division.....		45,180	42,570	1,453,090				
Montana:								
Huntley.....	32,540	20,850	20,440	879,280				
Milk River.....	76,390	14,830	14,680	220,900	43,265	14,683	14,683	374,490
Sun River.....	55,880	13,080	<sup>4</sup> 21,250	302,555				
Fort Shaw division.....		6,050	6,730	118,310				
Greenfields and Big Coulee division.....		7,030	14,520	184,245				
Montana-North Dakota.....								
Lower Yellowstone.....	58,250	15,630	15,630	421,510				
Nebraska-Wyoming:								
North Platte.....	237,220	175,750	174,315	5,317,530	124,400	103,430	103,430	4,560,560
Pathfinder irrigation district.....		87,870	86,820	2,548,770				
Gering and Fort Laramie division.....		45,450	45,150	1,514,510				
Goshen irrigation district.....		32,040	32,040	1,010,804				
Northport division.....		10,390	10,305	243,446				
Nevada: Newlands.....	65,010	49,255	45,370	1,821,860				
New Mexico: Carlsbad.....	25,000	24,810	22,780	1,935,270				
New Mexico-Texas: Rio Grande.....	150,000	137,550	133,730	10,599,940	47,820	47,820	47,820	2,691,650
Oregon: Umatilla.....	18,710	11,460	11,060	212,200				
Oregon-California:								
Klamath.....	52,880	41,020	38,830	1,181,670	43,220	26,800	26,255	512,695
Main division.....	41,435	35,350	34,750	1,072,300				
Tule Lake division.....	11,445	5,670	4,080	109,370				
South Dakota: Belle Fourche.....	74,470	26,570	<sup>5</sup> 45,700	910,590				
Utah: Strawberry Valley.....	36,380	32,300	31,490	877,290	37,010	20,702	19,520	388,160
Washington:								
Okanogan.....	7,300	4,125	3,760	1,064,215				
Yakima.....	134,540	119,900	102,590	8,283,060	166,720	120,828	120,828	14,855,930
Sunnyside division.....	102,540	93,000	80,090	4,903,200				
Tieton division.....	32,000	26,900	22,500	3,379,860				
Wyoming:								
Shoshone.....	61,710	41,330	41,020	1,224,540				
Garland division.....	41,648	33,640	33,460	1,045,740				
Framme division.....	20,062	7,690	7,560	178,800				
Riverton.....	20,000	450	390	5,155				

<sup>1</sup> Data are for calendar year (irrigation season), except on Salt River project, where data are for corresponding "agricultural year" October, 1926, to September, 1927

<sup>2</sup> Area for which bureau was prepared to supply water.

<sup>3</sup> Includes 20,536 acres reported as vacant, 2,414 acres of "home tracts," and 3,548 acres on which no crops were reported.

<sup>4</sup> 680 acres in the Fort Shaw division, and 8,170 acres in the Greenfields and Big Coulee division cropped without irrigation.

<sup>5</sup> 19,130 acres cropped without irrigation.

Source Bureau of Reclamation, Department of Interior.

# No. 556.—GOVERNMENT IRRIGATION PROJECTS: ACREAGE IRRIGABLE, IRRIGATED, AND CROPPED, AND VALUE OF CROPS, 1927—Continued

NOTE.—Acreage in thousands and value in thousands of dollars. Acreage and value exclude nonirrigated crops grown on projects. See headnote, Table 557

Year	Irrigable acreage	Irrigated acreage	Cropped acreage	Crop value	Year	Irrigable acreage	Irrigated acreage	Cropped acreage	Crop value
1915-----	1,380	815	758	18,164	1922-----	1,693	1,202	1,169	50,361
1916-----	1,405	923	858	32,816	1923-----	1,718	1,214	1,180	65,046
1917-----	1,502	1,027	967	56,462	1924-----	1,806	1,291	1,217	66,489
1918-----	1,602	1,120	1,051	66,821	1925-----	1,803	1,320	1,243	77,609
1919-----	1,636	1,187	1,113	88,974	1926-----	1,845	1,411	1,329	60,370
1920-----	1,662	1,225	1,154	66,172	1927-----	1,957	1,379	1,327	70,985
1921-----	1,674	1,228	1,158	49,620	1928-----	1,883	1,442	1,386	80,239

# No. 557.—ACREAGE, PRODUCTION, AND VALUE OF INDIVIDUAL CROPS ON IRRIGATED LAND ON RECLAMATION PROJECTS

NOTE.—These figures are limited to crops covered by crop census on Government irrigation projects proper, excluding all crops in areas served with stored water under the Warren Act, but including nonirrigated crops grown on projects (total acreage 1927, 104,750, 1928, 103,680; value of all crops, \$1,661,750 and \$838,950, respectively.) Data are for calendar years except for Salt River project, where data are for year ended September of year specified

Crop	Acreage cropped		Production		Crop value		Yield per acre	
	1927	1928	1927	1928	1927	1928	1927	1928
			<i>Bushels</i>	<i>Bushels</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Bushels</i>	<i>Bushels</i>
Total, all crops	1,431,560	1,489,240			72,047,200	81,077,750		
Cereals	348,018	339,806	9,814,634	9,857,673	8,077,789	7,576,430		
Barley	58,618	70,149	1,953,587	2,330,980	1,210,785	1,375,817	33 3	33 2
Corn	62,279	47,940	1,673,480	1,283,050	1,123,296	991,926	26 8	26 7
Oats	34,289	39,546	1,215,655	1,413,229	552,155	577,981	35 4	35 7
Rye	6,261	3,701	108,626	67,703	80,573	59,086	17 3	18 2
Wheat	186,571	178,470	4,863,286	4,762,711	5,110,980	4,571,620	26 0	26 7
Other seeds	47,441	45,285	219,043	178,935	1,697,026	1,786,179		
Alfalfa seed	31,471	20,348	158,925	87,312	1,054,225	755,911	4 4	4 2
Clover seed	13,987	23,825	56,483	82,285	601,718	1,012,903	4 0	3 4
Flaxseed	1,983	1,112	23,635	9,338	41,083	17,365	12 0	8 4
Hay and forage	838,184	810,106	1,414,284	1,575,388	18,707,549	20,745,188	<i>Tons</i>	<i>Tons</i>
Alfalfa hay	438,675	436,488	1,277,376	1,274,087	12,081,678	15,915,058	2 9	2 9
Clover hay	8,819	18,667	11,980	24,567	76,466	222,470	1 3	1 3
Other hay	53,814	27,799	59,229	28,736	545,805	247,468	1 1	1 0
Corn fodder	5,337	5,120	12,584	10,546	74,828	81,188	2 3	2 0
Other forage	19,447	29,986	53,115	237,450	670,223	809,194	2 7	7 9
Pasture	312,092	292,046			3,258,549	3,469,810		
Vegetables	113,844	131,454	<i>Bushels</i>	<i>Bushels</i>	13,027,469	13,294,111	<i>Bushels</i>	<i>Bushels</i>
Beans	13,193	17,977	208,569	286,427	618,877	911,035	16 0	15 9
Onions	5,653	2,759	801,443	912,695	404,508	871,200	141 0	330 8
Potatoes, white	58,162	63,504	10,543,065	10,531,091	4,334,330	2,519,924	181 3	165 8
Potatoes, sweet	499	693	41,502	85,841	62,229	106,718	83 2	123 9
Truck	41,337	46,521			7,707,525	8,885,234		
Fruits and nuts	46,332	50,043	<i>1,000 lbs</i>	<i>1,000 lbs</i>	9,213,586	9,073,831	<i>Pounds</i>	<i>Pounds</i>
Apples	23,908	23,811	325,053	499,473	5,294,092	4,783,873	8,666	13,801
Peaches	2,201	3,118	5,404	21,005	176,305	405,191	2,455	6,736
Pears	4,930	5,431	20,238	44,477	572,331	799,386	4,105	8,189
Prunes	2,415	2,572	10,296	17,296	202,543	237,746	4,263	6,724
Citrus fruits	4,719	6,231	50,550	46,826	1,569,348	1,195,898	10,712	7,515
Small fruits	3,136	3,162	15,975	23,880	464,749	760,236	5,094	7,552
Miscellaneous	5,023	5,718	15,406	17,375	934,168	891,501	3,067	3,038
Miscellaneous	294,986	400,177			22,917,851	28,602,011		
Cotton			70,140	96,740			392	421 4
Cottonseed	178,875	229,560	125,293	179,673	16,705,727	22,450,340	700	782 7
Sugar beets	61,963	71,250	<i>Tons</i>	<i>Tons</i>	5,843,489	5,592,982	<i>Tons</i>	<i>Tons</i>
Cane	1,169	931	744,145	778,365	29,575	28,990	12 0	10 9
Other crops	52,979	98,436	4,097	2,659	339,060	529,699	3 5	2 8
Duplication	275,225	287,631						

<sup>1</sup> Data for Strawberry Valley project included in totals but not in individual crops—acreage, 12,980; value, \$405,980

Source of Tables 556 and 557, Bureau of Reclamation, Department of the Interior.

# No. 556.—GOVERNMENT IRRIGATION PROJECTS: ACREAGE IRRIGABLE, IRRIGATED, AND CROPPED, AND VALUE OF CROPS, 1927—Continued

NOTE.—Acreage in thousands and value in thousands of dollars. Acreage and value exclude nonirrigated crops grown on projects See headnote, Table 557

Year	Irrigable acreage	Irrigated acreage	Cropped acreage	Crop value	Year	Irrigable acreage	Irrigated acreage	Cropped acreage	Crop value
1915-----	1,380	815	758	18,164	1922-----	1,693	1,202	1,169	50,361
1916-----	1,405	923	858	32,816	1923-----	1,718	1,214	1,180	55,046
1917-----	1,502	1,027	967	56,462	1924-----	1,806	1,291	1,217	66,489
1918-----	1,602	1,120	1,051	66,821	1925-----	1,803	1,320	1,243	77,609
1919-----	1,636	1,187	1,113	88,974	1926-----	1,845	1,411	1,329	60,370
1920-----	1,662	1,225	1,154	66,172	1927-----	1,957	1,379	1,327	70,985
1921-----	1,674	1,228	1,158	49,620	1928-----	1,883	1,442	1,386	80,239

# No. 557.—ACREAGE, PRODUCTION, AND VALUE OF INDIVIDUAL CROPS ON IRRIGATED LAND ON RECLAMATION PROJECTS

NOTE.—These figures are limited to crops covered by crop census on Government irrigation projects proper, excluding all crops in areas served with stored water under the Warren Act, but including nonirrigated crops grown on projects (total acreage 1927, 104,750, 1928, 103,680, value of all crops, \$1,661,750 and \$838,950, respectively) Data are for calendar years except for Salt River project, where data are for year ended September of year specified

Crop	Acreage cropped		Production		Crop value		Yield per acre	
	1927	1928	1927	1928	1927	1928	1927	1928
			<i>Bushels</i>	<i>Bushels</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Bushels</i>	<i>Bushels</i>
Total, all crops	1,431,560	1,489,240			72,047,200	81,077,750		
Cereals	348,018	339,808	9,814,634	9,857,673	8,077,789	7,576,430		
Barley	58,618	70,149	1,953,587	2,330,980	1,210,785	1,375,817	33 3	33 2
Corn	62,279	47,940	1,673,480	1,283,050	1,123,296	991,926	26 8	26 7
Oats	34,289	39,546	1,215,655	1,413,229	552,155	577,981	35 4	35 7
Rye	6,261	3,701	108,626	67,703	80,573	59,086	17 3	18 2
Wheat	186,571	178,470	4,863,286	4,762,711	5,110,980	4,571,620	26 0	26 7
Other seeds	47,441	45,285	219,043	178,935	1,697,026	1,786,179		
Alfalfa seed	31,471	20,348	158,925	87,312	1,054,225	755,911	4 4	4 2
Clover seed	13,987	23,825	56,483	82,285	601,718	1,012,903	4 0	3 4
Flaxseed	1,983	1,112	23,635	9,338	41,083	17,365	12 0	8 4
Hay and forage	838,184	810,106	1,414,284	1,575,388	18,707,549	20,745,188	<i>Tons</i>	<i>Tons</i>
Alfalfa hay	438,675	436,488	1,277,376	1,274,087	12,081,678	15,915,058	2 9	2 9
Clover hay	8,819	18,667	11,980	24,567	76,466	222,470	1 3	1 3
Other hay	53,814	27,799	59,229	28,736	545,805	247,468	1 1	1 0
Corn fodder	5,337	5,120	12,584	10,546	74,828	81,188	2 3	2 0
Other forage	19,447	29,986	53,115	237,450	670,223	809,194	2 7	7 9
Pasture	312,092	292,046			3,258,549	3,469,810		
Vegetables	113,844	131,454	<i>Bushels</i>	<i>Bushels</i>	13,027,469	13,294,111	<i>Bushels</i>	<i>Bushels</i>
Beans	13,193	17,977	208,569	286,427	618,877	911,035	16 0	15 9
Onions	5,653	2,759	801,443	912,695	404,508	871,200	141 0	330 8
Potatoes, white	58,162	63,504	10,543,065	10,531,091	4,334,330	2,519,924	181 3	165 8
Potatoes, sweet	499	693	41,502	85,841	62,229	106,718	83 2	123 9
Truck	41,337	46,521			7,707,525	8,885,234		
Fruits and nuts	46,332	50,043	<i>1,000 lbs</i>	<i>1,000 lbs</i>	9,213,586	9,073,831	<i>Pounds</i>	<i>Pounds</i>
Apples	23,908	23,811	325,053	499,473	5,294,092	4,783,873	8,666	13,801
Peaches	2,201	3,118	5,404	21,005	176,305	405,191	2,455	6,736
Pears	4,930	5,431	20,238	44,477	572,331	799,386	4,105	8,189
Prunes	2,415	2,572	10,296	17,296	202,543	237,746	4,263	6,724
Citrus fruits	4,719	6,231	50,550	46,826	1,569,348	1,195,898	10,712	7,515
Small fruits	3,136	3,162	15,975	23,880	464,749	760,236	5,094	7,552
Miscellaneous	5,023	5,718	15,406	17,375	934,168	891,501	3,067	3,038
Miscellaneous	294,986	400,177			22,917,851	28,602,011		
Cotton	178,875	229,560	70,140	96,740	16,705,727	22,450,340	392	421 4
Cottonseed			125,293	179,673			700	782 7
Sugar beets	61,963	71,250	<i>Tons</i>	<i>Tons</i>	5,843,489	5,592,982	<i>Tons</i>	<i>Tons</i>
Cane	1,169	931	4,097	2,659	29,575	28,990	12 0	10 9
Other crops	52,979	98,436			339,060	529,699	3 5	2 8
Duplication	275,225	287,631						

<sup>1</sup> Data for Strawberry Valley project included in totals but not in individual crops—acreage, 12,980; value, \$405,980

Source of Tables 556 and 557, Bureau of Reclamation, Department of the Interior.

# No. 560.—IRRIGATION: ACREAGE AND CAPITAL INVESTED, BY CHARACTER OF ENTERPRISE, 1910 AND 1920

NOTE.—See headnote, Table 559

Item and class	Area irrigated (acres)		Area enterprises were capable of irrigating (acres)		Area included in enterprises (acres)		Capital invested (thousands of dollars), 1920
	1909	1919	1910	1920	1910	1920	
Total.....	14, 433, 285	19, 191, 718	20, 285, 403	26, 020, 477	32, 245, 464	35, 890, 821	697, 657
Individual and partnership	6, 594, 614	6, 848, 807	8, 086, 766	9, 255, 756	10, 621, 067	13, 008, 415	154, 634
Cooperative.....	4, 643, 539	6, 581, 400	6, 191, 577	8, 403, 298	8, 830, 197	10, 628, 543	183, 042
Irrigation district.....	528, 642	1, 822, 887	800, 451	2, 531, 425	1, 581, 465	3, 432, 109	88, 574
Carey Act.....	288, 553	523, 929	1, 089, 677	804, 298	2, 573, 874	1, 188, 937	32, 681
Commercial.....	1, 809, 379	1, 822, 001	2, 954, 166	2, 799, 563	5, 786, 777	3, 999, 581	85, 735
United States Reclamation Service.....	395, 646	1, 254, 569	786, 190	1, 680, 643	1, 973, 016	2, 627, 176	129, 510
United States Indian Service.....	172, 912	284, 551	376, 576	484, 486	879, 068	932, 985	14, 851
State.....	(1)	5, 620	(1)	7, 379	(1)	9, 581	344
City.....	(1)	40, 146	(1)	44, 458	(1)	49, 650	2, 937
Other and mixed.....	(1)	7, 236	(1)	8, 546	(1)	13, 144	5, 310
Not reported.....	(1)	570	(1)	625	(1)	700	40

1 Not included in classification in 1910

Source Bureau of the Census, Department of Commerce.

# No. 561.—IRRIGATION: ACREAGE AND CAPITAL INVESTED, BY DRAINAGE BASINS, 1902 AND 1920

NOTE.—See headnote, Table 559

Drainage basin	Area irrigated (acres)		Area enterprises were capable of irrigating, 1920 (acres)	Area included in enterprises in 1920 (acres)	Capital invested (thousands of dollars)	
	1902	1919			1902	1920
Total.....	8, 874, 408	19, 191, 718	26, 020, 477	35, 890, 821	82, 532	697, 657
Missouri River and tributaries.....	2, 533, 237	4, 147, 278	5, 805, 630	8, 483, 171	16, 176	131, 553
Mississippi River and tributaries other than Missouri River.....	393, 687	958, 493	1, 152, 261	1, 543, 064	4, 620	35, 184
Gulf of Mexico streams other than Mississippi River and Rio Grande.....	21, 833	698, 077	1, 157, 529	1, 602, 169	501	29, 440
Rio Grande and tributaries.....	496, 587	1, 293, 863	1, 887, 433	2, 594, 127	6, 367	34, 173
Independent streams in Rio Grande drainage basin.....	8, 355	18, 992	26, 852	34, 026	127	651
Colorado River and tributaries.....	927, 183	2, 312, 047	2, 986, 937	4, 064, 492	11, 299	86, 697
White Water Draw and tributaries.....	384	5, 871	9, 950	16, 623	7	299
Great Basin.....	1, 639, 473	2, 313, 163	2, 869, 858	4, 238, 028	10, 890	66, 589
Columbia River and tributaries.....	1, 297, 437	3, 873, 245	4, 968, 518	6, 336, 801	10, 851	145, 672
Pacific Ocean streams other than Columbia and Colorado Rivers.....	1, 556, 232	3, 570, 687	5, 155, 509	6, 978, 320	21, 694	167, 398

Source. Bureau of the Census, Department of Commerce.

**No. 562.—IRRIGATION: AREA IN IRRIGATION ENTERPRISES, CAPITAL INVESTED, AND COST OF OPERATION AND MAINTENANCE, 1910 AND 1920, BY STATES**

NOTE.—See headnote, Table 559

State	Area included in enterprises (acres)			Area enterprises were capable of irrigating (acres)			Area irrigated (acres)		
	1910	1920	Per cent of increase <sup>1</sup>	1910	1920	Per cent of increase <sup>1</sup>	1909	1919	Per cent of increase <sup>1</sup>
Total.....	32,245,464	35,890,821	11 3	20,285,403	26,020,477	28 3	14,433,285	19,191,716	33 0
Arizona.....	944,090	813,153	-13 9	387,655	627,303	61 8	320,051	467,565	46 1
Arkansas.....	52,833	246,480	366 1	47,136	179,013	279 8	27,753	143,946	418.7
California.....	5,490,360	7,805,207	42 2	3,619,378	5,894,466	62 9	2,664,104	4,219,040	58 4
Colorado.....	5,917,457	5,220,588	-11 8	3,990,166	3,855,348	-3 4	2,792,032	3,348,385	19.9
Idaho.....	3,549,573	3,780,048	6 5	2,388,959	3,092,810	29 5	1,430,848	2,488,806	73.9
Kansas.....	161,300	102,562	-36 4	139,995	67,853	-51 5	37,479	47,312	26.2
Louisiana.....	581,965	851,211	46 3	553,220	728,742	31 7	380,200	454,882	19.6
Montana.....	3,515,602	4,329,148	23 1	2,205,155	2,753,498	24 9	1,679,084	1,681,729	.2
Nebraska.....	680,133	766,768	12 7	429,225	562,468	31 0	255,950	442,690	73 0
Nevada.....	1,232,142	1,382,036	12 2	840,962	704,708	-16 2	701,833	561,447	-20.0
New Mexico.....	1,102,297	961,879	-12 7	644,970	696,119	7 9	461,718	538,377	16.6
North Dakota.....	38,173	57,476	50 6	21,917	34,235	56.2	10,248	12,072	17.8
Oklahoma.....	8,528	11,742	37.7	6,397	9,672	51.2	4,388	2,969	-32.3
Oregon.....	2,527,208	1,925,987	-23 8	830,526	1,344,046	61 8	686,129	986,162	43.7
South Dakota.....	201,625	188,382	-6 6	128,481	150,914	17.5	63,248	100,682	59.2
Texas.....	1,253,173	1,687,447	34 7	690,991	1,150,542	66.5	451,130	586,120	29.9
Utah.....	1,947,625	2,359,244	21.1	1,250,246	1,700,550	36.0	999,410	1,371,651	37.2
Washington.....	817,032	836,795	2.4	470,514	637,151	35.4	334,378	529,899	58.5
Wyoming.....	2,224,298	2,564,668	15.3	1,639,510	1,831,039	11.7	1,133,302	1,207,982	6.6

State	Capital invested (dollars)				Estimated final cost (dollars)				Average cost of operation and maintenance per acre (dollars) <sup>3,4</sup>	
	Amount		Average per acre		Amount		Average per acre			
	1910	1920	1910	1920	1910	1920	1910	1920	1909	1919
Total.....	321,454,008	697,657,328	15.85	26 81	437,948,825	819,778,005	13 58	22 84	1.07	2 43
Arizona.....	17,677,966	83,498,094	45 60	53 40	24,828,868	34,615,064	26 30	42 57	0 93	3 27
Arkansas.....	587,834	7,183,322	12 47	40 13	612,834	7,283,522	11 59	29 55	( <sup>4</sup> )	13.67
California.....	72,580,030	194,886,388	20.05	33 06	84,392,344	225,799,123	15 37	28 93	1.54	4.40
Colorado.....	56,636,443	88,302,442	14.19	22 90	76,443,239	95,198,423	12 92	18 24	.75	.87
Idaho.....	40,977,688	91,501,009	17.15	29 59	58,451,106	97,019,717	16 47	25 67	.63	1 17
Kansas.....	1,365,563	2,067,381	9.75	30 47	1,365,563	2,195,981	8 47	21 41	1.59	3 29
Louisiana.....	6,859,166	14,063,181	12.40	19 30	6,914,166	14,264,178	11 88	16 76	( <sup>4</sup> )	7 01
Montana.....	22,970,958	52,143,363	10.42	18.94	32,382,077	70,079,028	9 21	16 19	.89	1 26
Nebraska.....	7,798,310	13,909,185	17.74	24 73	9,485,231	18,030,154	13 95	23 51	1 09	1.48
Nevada.....	6,721,924	14,754,280	7.99	20 94	12,188,756	22,648,747	9 89	16 39	.97	.79
New Mexico.....	9,154,897	18,210,412	14.19	26 16	11,640,091	20,440,646	10 56	21 25	1 36	2 41
North Dakota.....	836,482	1,857,118	38.17	54 25	836,482	2,072,766	21 91	36 06	28 40	5 50
Oklahoma.....	47,200	151,325	7 38	15 65	47,200	162,775	5 53	13 86	.51	2 92
Oregon.....	12,760,214	28,929,151	15.36	21 52	39,216,619	41,535,742	15.52	21 59	.75	1 19
South Dakota.....	3,043,140	5,465,248	23.69	36 21	3,800,556	5,500,748	18 85	20 20	.64	1 26
Texas.....	13,487,347	35,072,739	19.52	30 48	14,754,172	39,860,871	11 77	23 62	3 25	6 92
Utah.....	14,028,717	32,037,351	11.22	18 84	17,840,775	33,835,641	9 16	14 34	.65	1 08
Washington.....	16,219,149	29,299,011	34.47	45 98	22,322,856	37,684,591	27 32	45 03	3 08	1 45
Wyoming.....	17,700,980	34,326,328	10.80	18 75	20,425,890	51,500,288	9 18	20 08	.86	3 04

<sup>1</sup> A minus sign (-) denotes decrease.

<sup>2</sup> Figures for 1909 do not include cost of operation and maintenance for rice-growing districts in Gulf States; consequently, figures for 1909 and 1919 are not comparable.

<sup>3</sup> When water is pumped, cost of operation and maintenance includes cost of fuel and attendance.

<sup>4</sup> Not reported in 1909.

Source: Bureau of the Census, Department of Commerce.

## No. 563.—IRRIGATION: CROPS GROWN ON IRRIGATED LAND, 1919

NOTE.—See headnotes, Tables 559 and 564. The figures given are probably incomplete but are fairly indicative of the relative importance of different crops on irrigated land and of the average yields and values per acre. For comparison the average yields per acre on nonirrigated land in the States having irrigation projects (not for the entire country) are shown

Crop	Area harvested (acres)	Quantity harvested		Average yield per acre in States having irrigation enterprises		Value (dollars)	
		Unit	Amount	On irrigated land	On nonirrigated land	Amount	Average per acre
<b>Cereals</b>							
Corn.....	263,312	Bushel..	7,525,354	28 6	21 8	11,692,813	44.41
Oats.....	325,523	do.....	9,361,125	28 8	26 5	9,534,495	29 29
Winter wheat.....	381,127	do.....	7,115,303	18 7	14 1	15,269,840	40 06
Spring wheat.....	877,411	do.....	17,679,328	20 1	7 6	37,556,853	42 80
Barley.....	280,287	do.....	7,202,430	25 7	17 3	10,775,076	38.44
Rye.....	19,014	do.....	168,977	8 9	7 4	295,987	15.57
Kafir, milo, etc.....	152,768	do.....	4,100,338	26 8	19 6	6,725,561	44.02
Rice (rough) <sup>1</sup> .....	892,761	do.....	35,032,275	39 2	4 1	96,368,090	107 94
<b>Other grains and seeds</b>							
Clover and alfalfa seed <sup>2</sup> .....	39,431	do.....	161,587	4 1	1 4	3,461,762	87 79
Dry beans, navy, etc.....	177,752	do.....	2,862,567	16.1	10 3	12,986,298	73.06
Dry peas, Canada.....	51,464	do.....	637,560	12 4	10 0	2,042,455	39.69
<b>Hay and forage</b>							
Timothy alone.....	140,607	Ton.....	178,112	1 27	1 09	4,582,905	32.59
Timothy and clover mixed.....	392,260	do.....	569,591	1 45	1 50	13,782,635	35 14
Clover alone.....	40,879	do.....	63,465	1 55	1 56	1,334,600	32.65
Alfalfa.....	3,151,675	do.....	8,430,766	2 68	1 84	186,391,209	59.14
Other tame grasses.....	254,313	do.....	316,803	1 25	1 32	6,473,377	25.45
Wild, salt, or prairie grasses.....	1,034,507	do.....	951,345	.92	.82	17,954,630	17 36
Small grains cut for hay.....	291,697	do.....	372,739	1 28	.92	8,448,901	28.96
Annual legumes cut for hay.....	19,851	do.....	28,334	1 43	1 20	494,052	24 89
Silage crops.....	56,424	do.....	388,830	6 89	4 54	3,331,525	67 91
Corn cut for forage.....	36,689	do.....	87,389	2 38	1 51	1,121,730	30 57
Kafir, sorghum, etc., for forage.....	51,981	do.....	106,035	2 04	1 68	1,614,325	31 06
Root crops for forage.....	2,631	do.....	19,643	7.43	11 11	340,329	129.35
<b>Vegetables:</b>							
Potatoes.....	154,194	Bushel..	22,978,739	149.0	64.9	50,778,993	329.32
Cantaloupes and muskmelons.....	20,874	do.....	do.....	do.....	do.....	3,853,037	184.59
Tomatoes.....	20,649	do.....	do.....	do.....	do.....	2,701,968	130.85
<b>Orchard fruits:</b>							
Grapes.....	<sup>3</sup> 73,675,084	Pound..	1,131,279,429	<sup>4</sup> 15 4	<sup>4</sup> 11 3	36,304,252	-----
Apples.....	<sup>5</sup> 9,085,326	Bushel..	22,406,306	<sup>6</sup> 2 5	<sup>6</sup> 1 7	24,566,584	-----
Peaches.....	<sup>5</sup> 7,062,692	do.....	13,224,500	<sup>6</sup> 1 9	<sup>6</sup> 1 2	24,670,264	-----
Pears.....	<sup>5</sup> 1,849,429	do.....	3,479,806	<sup>6</sup> 1 9	<sup>6</sup> 1 4	4,695,848	-----
Plums and prunes.....	<sup>5</sup> 4,306,976	do.....	7,074,240	<sup>6</sup> 1 6	<sup>6</sup> 1 0	15,188,490	-----
Cherries.....	<sup>5</sup> 667,907	do.....	578,354	<sup>6</sup> 9	<sup>6</sup> 6	2,139,891	-----
<b>Subtropical fruits.</b>							
Oranges.....	<sup>5</sup> 8,711,152	Box.....	18,774,366	<sup>6</sup> 2 2	<sup>6</sup> 1 8	58,244,422	-----
Lemons.....	<sup>5</sup> 2,299,716	do.....	5,776,149	<sup>6</sup> 2 5	<sup>6</sup> 1 3	16,750,332	-----
<b>Miscellaneous.</b>							
Sugar beets grown for sugar.....	377,655	Ton.....	3,567,522	9 45	8.38	38,831,339	102 82
Cotton.....	214,576	Bale.....	113,862	53	.28	30,457,881	141.94

<sup>1</sup> Quantity harvested and value given for irrigated land were not tabulated separately. The totals given include small amounts of rice grown without irrigation.

<sup>2</sup> Not including red clover seed.

<sup>3</sup> Number of vines of bearing age.

<sup>4</sup> Yield per vine.

<sup>5</sup> Number of trees of bearing age.

<sup>6</sup> Yield per tree.

Source Bureau of the Census, Department of Commerce.

**No. 564.—IRRIGATION: ACREAGE AND VALUE OF CROPS GROWN ON IRRIGATED LAND, 1919**

NOTE.—The data in this table are from schedules of individual farmers and not from the managements of irrigation enterprises, as in the case of Table 563. It is believed that the returns are incomplete, some crops actually grown on irrigated land not having been distinguished as such. In the tabulation for each State crops of which the aggregate area in the State was reported as less than 500 acres were omitted, but these form such a small part of the total as to be negligible

State	Acreage	Value (dollars)		State	Acreage	Value (dollars)	
		Amount	Average per acre			Amount	Average per acre
<b>Total</b> .....	<b>10, 482, 653</b>	<b>801, 005, 326</b>	<b>76 41</b>	Nevada.....	331, 177	12, 390, 593	37. 41
Arizona.....	333, 616	34, 190, 780	102 49	New Mexico...	233, 893	11, 400, 144	48. 74
Arkansas.....	143, 946	18, 352, 240	127 49	North Dakota...	25, 280	267, 148	10 57
California.....	2, 329, 052	319, 208, 503	137 06	Oklahoma.....	(1)		
Colorado.....	1, 946, 676	100, 215, 136	51 48	Oregon.....	274, 584	12, 294, 191	44 77
Idaho.....	1, 203, 270	76, 830, 746	63 85	South Dakota...	67, 021	2, 403, 548	35. 86
Kansas.....	28, 502	842, 161	29 55	Texas.....	295, 353	22, 343, 976	75 66
Louisiana.....	454, 882	42, 735, 849	93. 95	Utah.....	843, 219	50, 114, 342	59. 43
Montana.....	867, 226	30, 382, 674	35. 03	Washington....	395, 196	39, 801, 619	100. 71
Nebraska.....	199, 815	11, 547, 679	57. 79	Wyoming.....	509, 945	15, 683, 997	30 76

<sup>1</sup> No one crop reported with as much as 500 acres

Source Bureau of the Census, Department of Commerce

**No. 565.—DRAINAGE OF FARM LANDS AND DRAINAGE OF OPERATING ENTERPRISES IN THE UNITED STATES, 1920**

NOTE.—The statistics of drainage on farms in the first part of this table and the statistics of drainage enterprises in the second part are from wholly different sources and are not comparable. The former are from schedules of individual farmers and the latter from a special canvass of organized drainage enterprises. The farm may have artificial drainage without being connected with any general enterprise. Conversely, a general enterprise may facilitate the ultimate removal of water from a farm which has itself no artificial drainage. The statements of farmers as to additional land needing drainage are likely to be less precise than those as to area actually drained artificially. Drainage enterprises comprise public corporations and local improvement districts established under State laws relating to drainage, commercial enterprises draining land for sale, other organizations engaged in extensive land drainage work, and tracts of 500 acres or more drained by individual farm owners. The enterprises in some States include considerable areas of timber and other unimproved land not in farms. The canvass of drainage enterprises did not include any of the northeastern States, and no enterprises were found in Alabama, Virginia, or West Virginia

Item	Amount	Per cent of total	Item	Amount	Per cent of total
<b>DRAINAGE ON FARMS</b>			<b>DRAINAGE ENTERPRISES</b>		
Number of all farms in the United States.....	6, 448, 343	100 0	Approximate land area of States included.....acres..	1,717,932,160	100 0
Farms reporting land having drainage.....	924, 815	14. 3	All land in operating drainage enterprises.....acres..	65, 495, 038	3 8
Farms reporting land needing drainage.....	956, 095	14. 8	Improved land.....do.....	44, 288, 235	2. 6
Farms reporting both land provided with drainage and land needing drainage.....	402, 623	6 2	Timber and cut-over land.....acres.....	11, 283, 532	. 7
All land in farms.....acres..	955, 883, 715	100. 0	Other unimproved land.....acres.....	9, 923, 271	. 6
Improved land in farms.....acres..	503, 073, 007	52. 6	Total capital invested in and required for completion of operating enterprises.....dollars..	434, 594, 979	100. 0
Farm land reported as provided with drainage.....acres..	53, 024, 975	5. 5	Capital invested in these enterprises to Dec 31, 1919.....dollars..	372, 273, 567	85 7
Farm land reported as needing drainage.....acres..	39, 169, 639	4. 1	Additional capital required to complete these enterprises.....dollars..	62, 321, 412	14. 3

Source. Bureau of the Census, Department of Commerce.

# No. 566.—DRAINAGE ENTERPRISES CLASSIFIED BY CHARACTER OF ORGANIZATION: 1920

NOTE—See headnote, Table 565

Character of enterprise	Operating enterprises			Nonoperating enterprises		
	Land in enterprises (acres) <sup>1</sup>	Capital (dollars)		Land in enterprises (acres) <sup>1</sup>	Capital (dollars)	
		Invested to Dec 31, 1919	Additional required to complete		Invested to Dec 31, 1919	Additional required to complete
<b>Total</b> .....	<b>65,495,038</b>	<b>372,273,567</b>	<b>62,321,412</b>	<b>3,924,821</b>	<b>1,123,458</b>	<b>34,937,678</b>
Drainage districts.....	22,069,597	172,013,972	39,136,568	3,260,104	772,834	26,339,970
General State laws.....	20,239,956	147,511,259	24,593,523	2,667,056	752,830	25,073,970
Special acts.....	1,829,641	24,502,713	14,543,045	593,048	20,004	1,266,000
County drains.....	37,870,803	169,743,093	9,682,477	596,694	302,224	8,139,808
Township drains.....	195,133	574,963	4,500	423	-----	2,400
State drainage projects.....	1,422,844	6,845,429	6,434,440	-----	-----	-----
United States Reclamation Service.....	287,899	3,912,370	2,530,243	7,000	-----	150,000
Irrigation districts.....	175,200	1,459,714	2,553,829	-----	-----	-----
Commercial developments.....	212,421	3,279,829	1,128,000	50,000	45,000	150,000
Individual ownership.....	432,397	6,449,252	841,750	10,600	3,400	155,500
Character not precisely reported <sup>2</sup> .....	2,828,744	7,994,945	9,605	-----	-----	-----

<sup>1</sup> Before tabulation the area in each enterprise was reduced by the amount of overlapping with enterprises organized previously.

<sup>2</sup> All except 35,062 acres and \$218,951 invested to Dec 31, 1919, relate to either drainage districts or county drains in Indiana.

Source: Bureau of the Census, Department of Commerce.

# No. 567.—DRAINAGE OF OPERATING ENTERPRISES CLASSIFIED BY DATE OF ORGANIZATION: 1920

NOTE—See headnote, Table 565

Date of organization	Land		Capital (dollars)		Cost per acre assessed acreage (dollars)
	Area in enterprises (acres) <sup>1</sup>	Assessed acreage <sup>1</sup>	Invested to Dec 31, 1919	Additional required to complete	
<b>Total</b> .....	<b>65,495,038</b>	<b>95,629,291</b>	<b>372,273,567</b>	<b>62,321,412</b>	<b>4 54</b>
Before 1860.....	97,319	98,119	182,716	-----	1 88
1860 to 1869.....	783,357	932,665	1,689,852	-----	1 81
1870 to 1879.....	2,077,717	3,413,277	8,126,391	-----	2 38
1880 to 1889.....	6,424,294	8,843,654	23,934,330	1,840,829	2 91
1890 to 1899.....	6,026,937	11,575,924	24,498,861	521,310	2 16
1900 to 1904.....	7,606,753	12,200,468	26,706,464	709,063	2 25
1905 to 1909.....	14,530,397	20,228,636	76,072,320	7,612,491	4 14
1910 to 1914.....	17,344,098	22,245,539	120,269,596	14,455,410	6 19
1915 to 1919.....	11,374,619	15,828,501	87,379,002	36,771,650	7 84
Not reported.....	229,547	262,608	3,414,035	410,659	14 56

<sup>1</sup> Before tabulation the area in each enterprise was reduced by the amount of overlapping with enterprises organized previously.

<sup>2</sup> These figures represent the sums of the areas in all the enterprises, without deducting for overlapping.

Source: Bureau of the Census, Department of Commerce.



# No. 568.—DRAINAGE OF FARM LANDS AND DRAINAGE OF OPERATING ENTERPRISES: BY DIVISIONS AND STATES, 1920

NOTE.—See headnote, Table 565, especially as regards the difference in the basis of the first four columns as compared with the last four columns and as to areas not covered by statistics of enterprises

Division and State	Farm lands				Organized and operating drainage enterprises			
	With artificial drainage		Additional land (acres) needing—		Total acreage included <sup>1</sup>	Improved acreage <sup>1</sup>	Capital invested (thousands of dollars)	
	Acreage	Per cent of all improved land	Drainage only	Drainage and clearing			Invested to Dec. 31, 1919	Additional required to complete
<b>United States</b> .....	53, 024, 975	10. 5	10, 459, 181	28, 710, 458	65, 495, 038	44, 288, 235	372, 274	62, 321
<b>New England</b> .....	129, 799	2. 1	88, 991	310, 976	—	—	—	—
Maine.....	26, 302	1. 3	19, 930	122, 123	—	—	—	—
New Hampshire.....	11, 777	1. 7	9, 914	30, 869	—	—	—	—
Vermont.....	35, 649	2. 1	19, 265	49, 647	—	—	—	—
Massachusetts.....	39, 022	4. 3	21, 212	59, 671	—	—	—	—
Rhode Island.....	2, 403	1. 8	2, 240	5, 934	—	—	—	—
Connecticut.....	14, 646	2. 1	14, 430	42, 032	—	—	—	—
<b>Middle Atlantic</b> .....	1, 673, 638	6. 3	505, 910	908, 128	—	—	—	—
New York.....	1, 180, 423	9. 0	318, 865	460, 602	—	—	—	—
New Jersey.....	174, 260	11. 2	29, 193	48, 688	—	—	—	—
Pennsylvania.....	318, 955	2. 7	157, 852	396, 838	—	—	—	—
<b>East North Central</b> .....	30, 737, 058	35. 0	3, 243, 427	5, 626, 929	31, 627, 176	25, 282, 065	134, 270	9, 463
Ohio.....	7, 365, 532	39. 7	886, 557	1, 128, 332	8, 107, 204	6, 707, 328	30, 680	91
Indiana.....	8, 308, 844	49. 8	673, 952	1, 043, 116	9, 087, 183	7, 605, 565	31, 148	796
Illinois.....	11, 247, 637	41. 2	641, 493	587, 246	3, 909, 049	3, 532, 316	43, 595	7, 798
Michigan.....	3, 156, 632	24. 4	579, 813	1, 490, 577	9, 729, 171	7, 182, 352	24, 684	365
Wisconsin.....	658, 411	5. 3	461, 612	1, 377, 661	794, 569	254, 504	4, 163	402
<b>West North Central</b> .....	11, 758, 939	6. 9	4, 187, 385	3, 073, 154	19, 217, 367	11, 630, 279	121, 562	11, 633
Minnesota.....	2, 993, 034	13. 9	1, 801, 457	1, 703, 117	9, 232, 709	3, 818, 490	42, 017	2, 166
Iowa.....	7, 334, 404	25. 6	1, 661, 744	391, 198	5, 224, 478	4, 493, 407	49, 627	4, 543
Missouri.....	855, 663	3. 5	163, 178	667, 515	2, 596, 264	1, 474, 302	20, 723	4, 027
North Dakota.....	89, 054	. 04	53, 161	158, 144	1, 240, 328	1, 026, 574	2, 208	53
South Dakota.....	161, 371	. 09	356, 049	90, 866	1, 222, 062	178, 540	1, 431	272
Nebraska.....	214, 428	. 09	115, 425	30, 393	607, 730	551, 517	4, 589	298
Kansas.....	106, 985	. 03	36, 371	31, 921	93, 856	87, 449	937	274
<b>South Atlantic</b> .....	2, 865, 072	5. 9	696, 687	6, 814, 543	2, 385, 384	388, 345	18, 847	14, 476
Delaware.....	185, 831	28. 5	7, 967	61, 002	—	—	—	—
Maryland.....	249, 799	8. 0	33, 267	151, 553	—	—	—	—
Dist. of Columbia.....	38, 197	4. 6	53	—	—	—	—	—
Virginia.....	225, 068	2. 4	77, 192	1, 095, 388	—	—	—	—
West Virginia.....	38, 464	7. 6	32, 253	278, 615	—	—	—	—
North Carolina.....	1, 066, 933	13. 0	189, 401	1, 735, 942	542, 828	204, 928	3, 624	903
South Carolina.....	676, 152	10. 9	125, 548	1, 216, 365	140, 031	59, 075	582	354
Georgia.....	274, 688	2. 1	143, 187	1, 676, 424	65, 452	29, 753	795	304
Florida.....	147, 940	6. 4	87, 814	599, 207	1, 637, 073	94, 589	13, 847	12, 916
<b>East South Central</b> .....	1, 720, 517	3. 9	492, 040	3, 817, 928	2, 323, 595	1, 349, 791	11, 624	2, 306
Kentucky.....	225, 228	1. 6	84, 189	489, 110	358, 480	245, 334	1, 522	299
Tennessee.....	254, 118	2. 3	76, 644	563, 835	366, 671	163, 218	2, 926	522
Alabama.....	415, 293	4. 2	150, 028	1, 460, 628	—	—	—	—
Mississippi.....	825, 878	8. 9	151, 179	1, 304, 355	1, 601, 444	941, 239	7, 076	1, 485
<b>West South Central</b> .....	2, 365, 701	5. 7	734, 305	6, 400, 267	7, 924, 197	3, 877, 166	28, 946	13, 411
Arkansas.....	497, 489	3. 4	129, 987	1, 512, 416	3, 479, 591	1, 491, 777	14, 147	11, 741
Louisiana.....	1, 004, 935	17. 9	179, 305	816, 464	2, 266, 328	1, 269, 391	9, 022	969
Oklahoma.....	107, 014	. 06	39, 788	225, 086	12, 150	8, 845	5, 701	700
Texas.....	756, 263	2. 4	385, 225	3, 745, 389	2, 166, 128	1, 107, 153	5, 701	700
<b>Mountain</b> .....	456, 015	1. 5	329, 359	640, 589	810, 076	635, 868	7, 840	4, 668
Montana.....	51, 146	. 05	36, 342	76, 951	168, 682	141, 252	665	181
Idaho.....	64, 648	1. 4	37, 566	162, 308	64, 642	52, 098	1, 669	120
Wyoming.....	35, 654	1. 7	23, 537	45, 229	95, 474	84, 846	1, 176	491
Colorado.....	127, 037	1. 6	80, 121	190, 872	171, 656	123, 031	1, 082	261
New Mexico.....	47, 311	2. 8	29, 016	20, 086	140, 219	92, 477	1, 711	1, 196
Arizona.....	9, 651	1. 4	9, 596	32, 355	39, 640	36, 880	414	612
Utah.....	74, 316	4. 3	74, 786	91, 140	113, 823	97, 314	1, 005	1, 865
Nevada.....	46, 252	7. 8	38, 095	21, 644	15, 940	7, 970	118	—
<b>Pacific</b> .....	1, 318, 238	5. 5	213, 077	1, 120, 644	1, 207, 243	1, 124, 721	49, 285	6, 373
Washington.....	274, 696	3. 9	45, 206	530, 799	94, 924	81, 886	1, 597	39
Oregon.....	229, 582	4. 7	75, 063	396, 353	4, 000	4, 000	200	—
California.....	813, 960	6. 9	92, 808	193, 512	1, 108, 319	1, 038, 935	47, 687	6, 334

<sup>1</sup> Before tabulation the area in each enterprise was reduced by the amount of overlapping with enterprises organized previously.

Source: Bureau of the Census, Department of Commerce.

## 25.—FARMS—GENERAL STATISTICS

[Data in this section relate to continental United States]

### No. 569.—POPULATION, FARMS, AND FARM PROPERTY

NOTE.—The schedule for 1925 did not call for "improved land." The combined total for "crop land," 391,459,902 acres, and "plowable pasture land," 113,567,498 acres, aggregating 505,027,400 acres, corresponds in a rough way to the definition of "improved land" at previous censuses. Figures for 1920 and 1925 relate to Jan. 1, for 1910 to Apr. 15, and for earlier years to June 1.

Item	1850	1880	1890	1900	1910	1920	1925
Total population.....	23, 191, 876	50, 155, 783	62, 947, 714	75, 994, 575	91, 972, 266	105, 710, 620	115, 378, 000
Urban.....		14, 358, 167	22, 298, 359	30, 380, 433	42, 166, 120	54, 304, 603	62, 768, 000
Rural <sup>1</sup> .....		35, 797, 616	40, 649, 355	45, 614, 142	49, 806, 146	51, 406, 017	52, 612, 000
Per cent of total.....		71.4	64.6	60.0	54.2	48.6	45.6
Farm population <sup>2</sup> .....						31, 614, 269	28, 981, 668
Per cent of total.....						29.9	25.1
Per cent of rural.....						61.5	55.1
Number of farms.....	1, 449, 073	4, 008, 907	4, 564, 641	5, 737, 372	6, 361, 502	6, 448, 343	6, 371, 640
Acreage in thousands—							
Approximate land area of United States.....	1, 884, 376	1, 903, 338	1, 903, 338	1, 903, 462	1, 903, 290	1, 903, 215	1, 903, 217
All lands in farms.....	293, 561	536, 082	623, 219	838, 592	878, 798	955, 884	924, 319
Improved land.....	113, 033	284, 771	357, 617	414, 498	478, 452	503, 073	(*)
Unimproved land.....	180, 528	251, 311	265, 602	424, 093	400, 347	452, 811	(*)
Per cent of total land area represented by all land in farms.....	15.6	28.2	32.7	44.1	46.2	50.2	48.6
Improved farm land.....	6.0	15.0	18.8	21.8	25.1	26.4	(*)
Unimproved farm land.....	9.6	13.2	14.0	22.3	21.0	23.8	(*)
Average acreage per farm, all land.....	202.6	133.7	136.5	146.2	138.1	148.2	145.1
Inhabitants per 1,000 acres of improved farm land.....	205	176	176	183	192	210	(*)
Value of all farm property (thousands of dollars).....	3, 967, 344	12, 180, 502	16, 082, 268	20, 439, 901	40, 891, 449	77, 923, 652	57, 017, 740
Land and buildings.....	3, 271, 575	10, 197, 097	13, 279, 253	16, 614, 647	34, 801, 126	60, 316, 003	49, 467, 647
Land <sup>3</sup> .....				13, 058, 008	23, 475, 674	54, 829, 563	37, 721, 018
Buildings.....				3, 556, 639	6, 325, 452	11, 486, 440	11, 746, 629
Implements and machinery.....	151, 588	406, 520	494, 247	749, 778	1, 265, 150	3, 594, 773	2, 691, 704
Livestock.....	544, 181	1, 576, 885	2, 308, 768	3, 075, 478	4, 925, 174	8, 012, 876	4, 858, 389
Per cent of value of all farm property represented by—							
Land and buildings.....	82.5	83.7	82.6	81.3	84.9	85.1	86.8
Land.....				63.9	69.5	70.4	66.2
Buildings.....				17.4	15.4	14.7	20.6
Implements and machinery.....	3.8	3.3	3.1	3.7	3.1	4.6	4.7
Livestock.....	13.7	12.9	14.4	15.0	12.0	10.3	8.5
Average value of all farm property per farm (dollars).....	2, 738	3, 038	3, 523	3, 563	6, 444	12, 084	8, 940
Land and buildings.....	2, 258	2, 544	2, 909	2, 896	5, 471	10, 284	7, 764
Land.....				2, 276	4, 476	8, 503	5, 920
Buildings.....				620	994	1, 781	1, 844
Implements and machinery.....	105	101	108	131	199	557	422
Livestock.....	376	393	506	536	774	1, 243	763
Average value of all farm property per acre (dollars).....	13.51	22.72	25.81	24.37	46.64	81.52	61.69
Land and buildings.....	11.14	19.02	21.31	19.81	39.60	69.38	53.52
Land.....				15.57	32.40	57.36	40.81
Buildings.....				4.24	7.20	12.02	12.71
Implements and machinery.....	.52	.76	.79	.89	1.44	3.76	2.91
Livestock.....	1.85	2.94	3.70	3.67	5.60	8.38	5.26

<sup>1</sup> Estimated.

<sup>2</sup> Population residing outside of incorporated places having 2,500 inhabitants or more, or in Massachusetts, Rhode Island, and New Hampshire, outside of towns having 2,500 inhabitants or more.

<sup>3</sup> The 1925 farm population includes only persons living on farms; the 1920 figures include also those farm laborers (and their families) who, while not living on farms, lived outside the limits of any incorporated place.

<sup>4</sup> See headnote.

<sup>5</sup> These figures include the value of fences, tile drains, and other incidental improvements on the land, excluding only the value of buildings.

Source Bureau of the Census, Department of Commerce.

## No. 570.—FARM POPULATION AND TOTAL POPULATION: By STATES

Division and State	Total population		Farm population <sup>1</sup>		Per cent of total population	
	1920	1925 (estimated)	1920	1925	1920	1925
United States.....	105,710,620	115,378,000	31,614,269	28,981,668	29.9	25.1
New England.....	7,400,909	7,987,000	625,877	657,755	8.5	8.2
Maine.....	768,014	787,000	197,601	191,062	25.7	24.3
New Hampshire.....	443,083	452,000	76,021	77,450	17.2	17.1
Vermont.....	352,428	352,428	125,263	114,188	35.5	32.4
Massachusetts.....	3,852,356	4,144,205	118,554	149,238	3.1	3.6
Rhode Island.....	604,397	679,260	15,136	18,663	2.5	2.7
Connecticut.....	1,380,631	1,572,000	93,302	107,154	6.8	6.8
Middle Atlantic.....	22,261,144	24,238,000	1,892,789	1,817,602	8.5	7.5
New York.....	10,385,227	11,162,151	800,747	767,500	7.7	6.9
New Jersey.....	3,155,900	3,600,000	143,708	139,255	4.6	3.9
Pennsylvania.....	8,720,017	9,476,000	948,334	910,847	10.9	9.6
East North Central.....	21,475,543	23,787,000	4,913,633	4,511,148	22.9	19.0
Ohio.....	5,759,394	6,470,000	1,139,329	1,031,718	19.8	15.9
Indiana.....	2,930,390	3,095,000	907,295	798,157	31.0	25.8
Illinois.....	6,485,280	7,092,000	1,098,262	996,368	16.9	14.0
Michigan.....	3,668,412	4,284,000	848,710	791,553	23.1	18.5
Wisconsin.....	2,632,067	2,846,000	920,037	893,352	35.0	31.4
West North Central.....	12,544,249	13,021,000	5,171,596	4,924,437	41.2	37.8
Minnesota.....	2,387,125	2,611,000	897,181	875,749	37.6	33.5
Iowa.....	2,404,021	2,419,927	984,799	951,558	41.0	39.3
Missouri.....	3,404,055	3,484,000	1,211,346	1,094,037	35.6	31.4
North Dakota.....	646,872	641,192	394,500	372,886	61.0	58.2
South Dakota.....	636,547	681,260	362,221	361,779	56.9	53.1
Nebraska.....	1,296,372	1,371,000	584,172	566,660	45.1	41.3
Kansas.....	1,769,257	1,812,986	737,377	701,768	41.7	38.7
South Atlantic.....	13,990,272	15,418,000	6,416,698	5,660,560	45.9	36.7
Delaware.....	223,003	238,000	51,212	44,662	23.0	18.8
Maryland.....	1,449,661	1,560,000	279,225	249,319	19.3	16.0
District of Columbia.....	437,571	514,000	894	682	2	1
Virginia.....	2,309,187	2,486,000	1,064,417	980,162	46.1	39.4
West Virginia.....	1,463,701	1,638,000	477,924	455,204	32.7	27.8
North Carolina.....	2,559,123	2,812,000	1,501,227	1,446,881	58.7	51.5
South Carolina.....	1,683,724	1,804,000	1,074,693	911,885	63.8	50.5
Georgia.....	2,895,832	3,102,000	1,685,213	1,309,584	58.2	42.2
Florida.....	968,470	1,263,549	281,893	262,181	29.1	20.7
East South Central.....	8,893,307	9,248,000	5,182,937	4,631,856	58.3	50.1
Kentucky.....	2,416,630	2,508,000	1,304,862	1,163,001	54.0	46.4
Tennessee.....	2,337,885	2,448,000	1,271,708	1,173,316	54.4	47.9
Alabama.....	2,348,174	2,499,000	1,335,885	1,166,432	56.9	46.7
Mississippi.....	1,790,618	1,790,618	1,270,482	1,129,107	71.0	63.1
West South Central.....	10,242,224	11,286,000	5,228,199	4,736,241	51.0	42.0
Arkansas.....	1,752,204	1,880,000	1,147,049	999,840	65.5	53.2
Louisiana.....	1,798,509	1,900,000	786,050	696,179	43.7	36.6
Oklahoma.....	2,028,283	2,294,000	1,017,327	925,690	50.2	40.4
Texas.....	4,663,228	5,212,000	2,277,773	2,114,532	48.8	40.6
Mountain.....	3,336,101	3,842,000	1,168,367	1,012,100	35.0	26.3
Montana.....	548,889	672,000	225,667	182,885	41.1	27.2
Idaho.....	431,866	508,000	200,902	172,216	46.5	33.9
Wyoming.....	194,402	229,000	67,306	61,181	34.6	26.7
Colorado.....	939,629	1,040,000	266,073	250,492	28.3	24.1
New Mexico.....	360,350	384,000	161,446	147,482	44.8	38.4
Arizona.....	334,162	428,000	90,560	71,954	27.1	16.8
Utah.....	449,396	504,000	140,249	108,856	31.2	21.6
Nevada.....	77,407	77,407	16,164	17,034	20.9	22.0
Pacific.....	5,568,871	6,553,000	1,014,173	1,028,969	18.2	15.7
Washington.....	1,356,621	1,510,000	283,852	288,673	20.9	19.1
Oregon.....	783,389	863,000	214,021	210,288	27.3	24.4
California.....	3,428,861	4,180,000	516,770	531,008	15.1	12.7

<sup>1</sup> The 1925 farm population includes only persons living on farms, the 1920 figures include also those farm laborers (and their families) who, while not living on farms, lived outside the limits of any incorporated place.

<sup>2</sup> Population Jan. 1, 1920.

<sup>3</sup> Population State census, 1925

Source: Bureau of the Census, Department of Commerce

## No. 571.—CLASSIFICATION OF FARM LAND: BY STATES, 1925

NOTE.—All figures in thousands of acres. For total of land in farms, see Table 572

Division and State	Crop land				Land in pasture				Wood-land not pasture	All other land
	Total	Har-vested in 1924	Crop failure in 1924	Idle or fallow	Total	Plow-able	Wood-land	Other		
United States...	391, 480	344, 549	13, 018	33, 893	407, 959	113, 567	78, 704	217, 687	67, 067	57, 834
New England.....	4, 694	4, 448	25	151	6, 787	771	3, 681	2, 335	3, 688	778
Maine.....	1, 644	1, 606	7	31	1, 752	196	981	575	1, 508	258
New Hampshire.....	1, 543	523	2	18	1, 087	90	780	218	537	95
Vermont.....	1, 150	1, 127	6	17	2, 176	252	1, 031	892	518	83
Massachusetts.....	677	625	5	47	877	95	482	299	637	176
Rhode Island.....	76		( <sup>1</sup> )	6	111	34	50	27	95	27
Connecticut.....	534	497	5	32	785	105	357	323	373	140
Middle Atlantic.....	18, 645	18, 482	214	1, 949	12, 312	3, 963	3, 460	4, 888	4, 173	2, 361
New York.....	9, 088	8, 290	91	706	7, 404	2, 081	2, 025	3, 298	1, 780	998
New Jersey.....	1, 126	908	21	197	335	185	44	106	254	210
Pennsylvania.....	8, 431	7, 284	102	1, 045	4, 573	1, 697	1, 391	1, 485	2, 139	1, 153
East North Central.....	64, 790	59, 114	1, 736	3, 940	35, 534	14, 197	12, 469	8, 569	4, 661	7, 767
Ohio.....	11, 695	10, 703	287	705	8, 138	3, 997	1, 854	2, 286	973	1, 413
Indiana.....	11, 981	10, 616	361	1, 004	5, 720	2, 732	1, 879	1, 110	838	1, 376
Illinois.....	21, 315	19, 755	647	913	7, 282	4, 008	1, 897	1, 377	739	1, 397
Michigan.....	9, 671	8, 502	174	996	5, 723	1, 756	2, 407	1, 559	895	1, 747
Wisconsin.....	10, 128	9, 538	268	321	8, 672	1, 703	4, 431	2, 537	1, 217	1, 835
West North Central.....	138, 827	130, 979	3, 481	4, 367	90, 800	35, 610	12, 240	42, 951	4, 917	13, 536
Minnesota.....	18, 651	17, 930	196	526	7, 903	2, 163	3, 556	2, 184	1, 194	2, 311
Iowa.....	21, 998	21, 466	423	109	9, 477	5, 150	1, 970	2, 357	243	1, 564
Missouri.....	15, 278	13, 721	686	872	13, 299	6, 859	4, 780	1, 660	2, 626	1, 439
North Dakota.....	21, 864	19, 877	322	1, 665	8, 941	3, 111	337	5, 493	174	3, 349
South Dakota.....	16, 441	15, 793	347	301	13, 797	6, 149	288	7, 361	112	1, 688
Nebraska.....	20, 698	19, 810	591	296	19, 494	4, 381	657	14, 456	226	1, 606
Kansas.....	23, 897	22, 382	916	599	17, 890	7, 798	651	9, 441	343	1, 600
South Atlantic.....	34, 649	27, 212	570	6, 867	20, 364	7, 557	7, 948	4, 859	24, 773	8, 798
Delaware.....	519	404	7	108	102	79	10	12	188	1
Maryland.....	2, 228	1, 778	37	413	893	526	187	180	946	367
Dist. of Columbia.....	2	2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1
Virginia.....	5, 368	3, 969	114	1, 286	5, 288	2, 965	1, 332	991	5, 524	1, 030
West Virginia.....	1, 921	1, 677	28	217	1, 728	805	1, 687	2, 264	507	507
North Carolina.....	6, 857	5, 575	145	1, 137	2, 817	822	1, 387	548	7, 070	1, 850
South Carolina.....	5, 036	4, 311	92	1, 632	1, 637	311	1, 008	319	2, 562	1, 404
Georgia.....	10, 696	8, 128	112	2, 456	3, 849	812	2, 324	713	4, 722	2, 679
Florida.....	2, 022	1, 369	35	618	1, 489	258	794	438	1, 498	855
East South Central.....	28, 816	23, 696	502	4, 618	20, 280	10, 631	6, 528	3, 121	15, 101	6, 409
Kentucky.....	6, 827	5, 184	132	1, 512	7, 746	5, 501	1, 208	1, 038	3, 628	1, 711
Tennessee.....	7, 589	6, 209	111	1, 268	4, 697	2, 588	1, 364	745	4, 198	1, 417
Alabama.....	7, 692	6, 641	102	949	3, 544	1, 129	1, 928	487	3, 856	1, 647
Mississippi.....	6, 709	5, 662	158	889	4, 291	1, 412	2, 028	851	3, 419	1, 633
West South Central.....	56, 809	51, 335	2, 381	3, 093	92, 856	19, 237	16, 552	57, 068	7, 368	7, 980
Arkansas.....	7, 323	6, 227	174	922	3, 064	956	1, 676	432	3, 717	1, 528
Louisiana.....	4, 280	3, 485	216	579	1, 709	785	674	250	1, 732	1, 117
Oklahoma.....	15, 838	14, 549	762	528	13, 015	3, 879	2, 972	6, 164	458	1, 558
Texas.....	29, 369	27, 075	1, 229	1, 064	75, 068	13, 617	11, 230	50, 221	1, 461	3, 777
Mountain.....	25, 587	19, 706	2, 174	3, 707	98, 148	17, 524	6, 138	74, 488	909	7, 045
Montana.....	8, 474	6, 416	308	1, 750	22, 715	4, 124	1, 312	17, 279	234	1, 813
Idaho.....	3, 714	2, 579	372	764	3, 554	364	646	2, 544	97	751
Wyoming.....	1, 873	1, 573	151	154	16, 313	2, 201	371	13, 742	74	398
Colorado.....	7, 199	5, 948	832	419	15, 351	5, 114	1, 114	9, 123	239	1, 379
New Mexico.....	1, 785	1, 346	250	189	24, 049	5, 358	2, 145	16, 547	170	1, 846
Arizona.....	578	457	29	92	10, 124	143	389	9, 591	24	338
Utah.....	1, 425	1, 025	101	299	3, 067	139	97	2, 831	64	445
Nevada.....	534	363	131	40	2, 974	82	63	2, 829	7	577
Pacific.....	18, 712	11, 578	1, 933	5, 201	30, 877	4, 076	7, 690	19, 110	1, 496	3, 173
Washington.....	6, 084	3, 263	491	2, 330	5, 202	444	1, 317	3, 441	538	786
Oregon.....	4, 227	2, 592	457	1, 178	8, 808	599	2, 145	6, 059	520	581
California.....	8, 401	5, 723	985	1, 694	16, 872	3, 033	4, 228	9, 610	437	1, 806

<sup>1</sup> Less than 500

Source Bureau of the Census, Department of Commerce

## No. 572.—NUMBER AND TOTAL AND IMPROVED ACREAGE

NOTE—As to statistics of improved land see

Division and State	Number of farms				All land in farms (thousands of acres)			
	1900	1910	1920	1925	1910	1910	1920	1925
United States .....	5,737,372	6,361,502	6,448,343	6,371,640	838,592	878,798	955,884	924,319
<b>New England</b> .....	191,888	188,802	156,564	159,489	20,549	19,715	16,991	15,858
Maine .....	59,299	60,016	48,227	50,033	6,300	6,297	5,426	5,161
New Hampshire .....	29,324	27,053	20,523	21,065	3,610	3,249	2,604	2,262
Vermont .....	33,104	32,709	29,075	27,786	4,724	4,664	4,236	3,926
Massachusetts .....	37,715	36,917	32,001	33,454	3,147	2,876	2,494	2,368
Rhode Island .....	5,498	5,292	4,083	3,911	456	443	332	309
Connecticut .....	26,948	26,815	22,655	23,240	2,312	2,186	1,899	1,832
<b>Middle Atlantic</b> .....	485,618	468,379	425,147	418,868	44,660	43,191	40,573	37,491
New York .....	226,720	215,597	193,195	188,754	22,648	22,030	20,633	19,270
New Jersey .....	34,650	33,487	29,702	29,671	2,841	2,574	2,283	1,925
Pennsylvania .....	224,248	219,295	202,250	200,443	19,371	18,587	17,658	16,296
<b>East North Central</b> .....	1,135,823	1,123,489	1,084,744	1,051,572	116,341	117,929	117,735	112,752
Ohio .....	276,719	272,045	256,695	244,703	24,502	24,106	23,516	22,219
Indiana .....	221,897	215,485	205,126	196,786	21,620	21,800	21,063	19,915
Illinois .....	264,151	251,872	237,181	225,601	32,795	32,523	31,975	30,732
Michigan .....	203,261	206,960	196,447	192,327	17,562	18,941	19,033	18,035
Wisconsin .....	169,795	177,127	189,295	193,155	19,863	21,060	22,148	21,851
<b>West North Central</b> .....	1,060,744	1,109,948	1,098,951	1,111,314	201,009	232,848	256,973	248,081
Minnesota .....	154,659	156,137	178,478	188,231	26,248	27,676	30,222	30,059
Iowa .....	228,622	217,044	213,439	213,490	34,574	33,931	33,475	33,281
Missouri .....	284,886	277,244	263,004	260,473	33,998	34,591	34,775	32,642
North Dakota .....	45,332	74,360	77,690	75,970	15,543	28,427	36,215	34,327
South Dakota .....	52,622	77,644	74,637	79,537	19,071	26,017	34,636	32,018
Nebraska .....	121,525	129,678	124,417	127,734	29,912	38,622	42,225	42,025
Kansas .....	173,098	177,841	165,286	165,879	41,063	43,385	45,425	43,729
<b>South Atlantic</b> .....	962,295	1,111,891	1,158,976	1,108,061	104,298	103,792	97,775	88,569
Delaware .....	9,687	10,836	10,140	10,257	1,066	1,039	945	900
Maryland .....	46,012	48,023	47,908	49,001	5,170	5,057	4,758	4,433
District of Columbia .....	269	217	204	139	8	6	4	4
Virginia .....	167,886	184,018	186,242	193,723	19,908	19,496	18,561	17,210
West Virginia .....	92,874	96,685	87,289	90,380	10,655	10,026	9,570	8,980
North Carolina .....	224,637	253,725	269,763	283,482	22,749	22,439	20,022	18,594
South Carolina .....	155,365	176,434	192,693	172,767	13,985	13,512	12,427	10,639
Georgia .....	224,691	291,027	310,732	249,095	26,392	26,953	25,441	21,945
Florida .....	40,814	50,016	54,005	59,217	4,364	5,254	6,047	5,865
<b>East South Central</b> .....	903,313	1,042,480	1,051,600	1,006,052	81,248	81,521	78,897	70,607
Kentucky .....	234,667	259,185	270,626	258,524	21,979	22,189	21,613	19,913
Tennessee .....	224,623	246,012	252,774	252,669	20,342	20,042	19,511	17,901
Alabama .....	223,220	262,901	256,099	237,631	20,685	20,732	19,577	16,739
Mississippi .....	220,803	274,382	272,101	257,228	18,241	18,558	18,197	16,053
<b>West South Central</b> .....	754,853	943,186	996,088	1,017,305	178,491	189,150	173,449	165,013
Arkansas .....	178,694	214,678	232,604	221,991	16,637	17,416	17,457	15,632
Louisiana .....	115,969	120,546	135,463	132,450	11,059	10,439	10,020	8,838
Oklahoma .....	108,000	190,192	191,958	197,218	22,988	28,859	31,952	30,869
Texas .....	352,190	417,770	436,033	465,046	125,807	112,435	114,021	109,674
<b>Mountain</b> .....	101,327	183,448	244,109	233,392	46,397	59,533	117,337	131,689
Montana .....	13,370	26,214	57,677	46,904	11,844	13,546	35,071	32,736
Idaho .....	17,471	30,807	42,106	40,592	3,205	5,284	8,376	8,116
Wyoming .....	6,095	10,987	15,748	15,512	8,125	8,543	11,809	18,663
Colorado .....	24,700	46,170	59,934	58,020	9,475	13,532	24,462	24,167
New Mexico .....	12,311	35,676	29,844	31,687	5,131	11,270	24,410	27,850
Arizona .....	5,809	9,227	9,975	10,802	1,935	1,247	5,802	11,065
Utah .....	19,387	21,676	25,662	25,992	4,117	3,398	5,050	5,001
Nevada .....	2,184	2,689	3,163	3,883	2,566	2,715	2,357	4,091
<b>Pacific</b> .....	141,581	189,891	234,164	265,587	47,400	51,329	56,153	54,258
Washington .....	33,202	56,192	66,288	73,267	8,499	11,712	13,245	12,610
Oregon .....	35,837	45,502	50,206	55,911	10,071	11,685	13,542	14,131
California .....	72,542	88,197	117,670	136,409	28,829	27,931	29,366	27,517

1 Figures for 1900 include Indian Territory.

Source: Bureau of the Census, Department of Commerce.

## OF FARMS: BY STATES, WITH AVERAGES AND PERCENTAGES

headnote to Table 569 and data in Table 571

Improved land in farms (thousands of acres)			Average acreage per farm				Per cent of total land area in farms				Division and State
1900	1910	1920	1900	1910	1920	1925	1900	1910	1920	1925	
414,498	478,452	503,073	146.2	138.1	148.2	145.1	44.1	46.2	50.2	48.6	United States.
8,184	7,255	6,115	107.1	104.4	108.5	99.4	51.8	49.7	42.8	40.0	New England.
2,387	2,361	1,977	106.2	104.9	112.5	103.2	32.9	32.9	28.4	27.0	Maine.
1,077	929	703	123.1	120.1	126.9	107.4	62.5	56.2	45.0	39.1	N Hampshire.
2,127	1,634	1,692	142.7	142.6	145.7	141.3	80.9	79.9	72.5	67.2	Vermont.
1,292	1,165	909	83.4	77.9	77.9	70.8	61.2	55.9	48.5	46.0	Massachusetts.
187	178	133	82.9	83.8	81.2	79.0	66.7	64.9	48.6	45.3	Rhode Island.
1,065	988	701	85.8	81.5	83.8	78.8	74.9	70.9	61.6	59.4	Connecticut.
30,786	29,321	26,562	92.4	92.2	95.4	89.5	70.1	67.5	63.4	58.6	Middle Atlantic.
15,600	14,844	13,159	99.9	102.2	106.8	102.1	74.3	72.2	67.7	63.2	New York.
1,977	1,803	1,556	82.0	76.9	76.8	64.9	59.1	53.5	47.5	40.0	New Jersey.
13,209	12,674	11,848	86.4	84.8	87.3	81.3	67.5	64.8	61.5	56.8	Pennsylvania.
86,870	88,947	87,895	102.4	105.0	108.5	107.2	74.1	75.0	74.9	71.7	E. North Central.
19,244	19,228	18,542	88.5	88.6	91.6	90.8	94.0	92.5	90.2	85.2	Ohio.
10,680	16,951	16,680	97.4	98.8	102.7	101.7	94.1	92.3	91.3	86.3	Indiana.
27,699	28,048	27,295	124.2	129.1	134.8	136.2	91.5	90.7	89.1	85.7	Illinois.
11,799	12,852	12,926	86.4	91.5	96.9	98.8	47.7	51.5	51.7	49.0	Michigan.
11,247	11,908	12,452	117.0	118.9	117.0	113.1	56.2	59.6	62.6	61.8	Wisconsin.
135,644	164,285	171,394	189.5	209.6	234.3	223.2	61.5	71.2	78.6	75.9	W. North Central.
18,443	19,644	21,482	169.7	177.3	169.3	159.7	50.7	53.5	58.4	58.1	Minnesota.
29,898	29,491	28,607	151.2	156.3	156.8	155.9	97.2	95.4	94.1	93.6	Iowa.
22,900	24,581	24,833	119.3	124.8	132.2	125.3	77.3	78.6	79.1	74.2	Missouri.
9,645	20,455	24,563	94.9	382.3	466.1	451.9	34.6	63.3	80.6	76.4	N. Dakota.
11,286	15,827	18,199	362.4	335.1	464.1	402.6	38.8	52.9	70.4	65.1	S. Dakota.
18,433	24,383	23,110	246.1	297.8	339.4	329.0	60.8	78.6	85.9	85.5	Nebraska.
25,041	29,904	30,601	240.7	244.0	274.8	263.6	79.6	82.9	86.8	83.6	Kansas.
46,100	48,480	48,510	108.4	93.3	84.4	79.9	60.6	60.3	56.8	51.4	South Atlantic.
754	714	653	110.1	95.9	93.1	87.7	34.8	32.6	75.1	71.5	Delaware.
3,516	3,355	3,137	112.4	103.4	99.3	90.5	81.3	79.5	74.8	69.7	Maryland.
6	5	4	31.6	27.9	27.8	27.4	22.1	15.8	14.8	9.6	Dist of Col.
10,095	9,870	9,460	118.6	105.9	99.7	88.8	77.3	75.7	72.0	66.8	Virginia.
5,499	5,522	5,520	114.7	103.7	109.6	99.4	69.3	65.2	62.2	58.4	W. Virginia.
8,327	8,813	8,198	101.3	88.4	74.2	65.6	72.9	71.9	64.2	59.6	N. Carolina.
5,776	6,098	6,184	90.0	76.6	64.5	61.6	71.7	69.2	63.7	54.5	S. Carolina.
10,616	12,298	13,055	117.5	92.6	81.9	88.1	70.2	71.7	67.7	58.4	Georgia.
1,512	1,805	2,297	106.9	105.0	112.0	99.0	12.4	15.0	17.2	16.7	Florida.
40,237	43,947	44,380	89.9	78.2	75.0	70.2	70.7	71.0	68.7	61.5	E. South Central.
13,742	14,354	13,976	93.7	85.6	79.9	77.0	85.5	86.3	84.0	77.4	Kentucky.
10,246	10,890	11,185	90.6	81.5	77.2	70.8	76.2	75.1	73.1	67.1	Tennessee.
8,655	9,694	9,893	92.7	78.9	76.4	70.4	63.0	63.2	59.7	51.0	Alabama.
7,594	9,008	9,326	82.6	67.6	66.9	62.4	61.5	62.5	61.3	54.1	Mississippi.
39,771	58,264	64,190	233.8	179.3	174.1	162.2	64.2	61.5	63.1	60.0	W. South Central.
6,954	8,076	9,211	93.1	81.1	75.0	70.4	49.5	51.8	51.9	46.5	Arkansas.
4,667	5,276	5,626	95.4	86.6	74.0	66.7	38.1	35.9	34.5	30.4	Louisiana.
8,574	17,551	18,125	212.9	151.7	166.4	156.5	51.7	65.0	71.9	69.5	Oklahoma.
19,576	27,361	31,228	357.2	269.1	261.5	235.5	74.9	67.0	67.9	65.3	Texas.
8,403	15,915	30,106	457.9	324.5	480.7	564.2	8.4	10.8	21.3	24.0	Mountain.
1,737	3,640	11,007	885.9	516.7	608.1	697.9	12.7	14.5	37.5	35.0	Montana.
1,413	2,779	4,512	183.4	171.5	198.9	199.9	6.0	9.9	15.7	15.2	Idaho.
792	1,256	2,102	333.0	777.6	749.9	1,203.2	13.0	13.7	18.9	29.9	Wyoming.
2,274	4,302	7,745	383.6	293.1	408.1	416.5	14.3	20.4	36.9	35.4	Colorado.
327	1,467	1,717	416.8	315.9	817.9	878.9	6.5	14.4	31.1	35.5	N. Mexico.
255	350	713	333.2	135.1	581.7	1,024.4	2.7	1.7	8.0	15.2	Arizona.
1,032	1,368	1,715	212.4	156.7	196.8	192.4	7.8	6.5	9.6	9.5	Utah.
573	752	595	1,174.7	1,009.6	745.2	1,053.5	3.7	3.9	3.4	5.8	Nevada.
18,753	22,038	23,922	334.8	270.3	239.8	204.3	23.3	25.2	27.6	26.7	Pacific.
3,466	6,373	7,129	256.0	208.4	199.8	172.1	19.9	27.4	31.0	29.5	Washington.
3,328	4,275	4,914	281.0	256.8	269.7	252.7	16.5	19.1	22.1	23.1	Oregon.
11,959	11,390	11,878	397.4	316.7	249.6	201.7	28.9	28.0	29.5	27.6	California.

## No. 573.—VALUE OF FARM PROPERTY: ALL PROPERTY, LAND,

[All amounts in thousands of dollars]

Division and State	Value of all farm property				Value of land			
	1900	1910	1920	1925	1900	1910	1920	1925
United States.....	20, 439, 901	40, 991, 449	77, 923, 652	57, 017, 740	13, 058, 008	28, 475, 674	54, 829, 563	37, 721, 018
<b>New England.....</b>	<b>639, 646</b>	<b>867, 240</b>	<b>1, 173, 020</b>	<b>1, 091, 545</b>	<b>283, 461</b>	<b>382, 134</b>	<b>488, 125</b>	<b>413, 932</b>
Maine.....	122, 411	199, 272	270, 527	245, 869	49, 359	86, 481	114, 412	97, 524
New Hampshire.....	85, 842	103, 704	118, 656	107, 084	35, 498	44, 519	47, 425	37, 226
Vermont.....	108, 451	145, 400	222, 737	180, 912	45, 814	58, 385	82, 938	63, 865
Massachusetts.....	182, 647	226, 474	300, 472	293, 405	86, 925	105, 533	127, 654	110, 437
Rhode Island.....	26, 989	32, 991	33, 637	33, 446	13, 422	15, 010	14, 509	13, 543
Connecticut.....	113, 306	159, 400	226, 992	230, 829	52, 442	72, 206	101, 187	91, 337
<b>Middle Atlantic.....</b>	<b>2, 310, 887</b>	<b>2, 959, 589</b>	<b>3, 949, 694</b>	<b>3, 478, 716</b>	<b>1, 219, 928</b>	<b>1, 462, 321</b>	<b>1, 661, 676</b>	<b>1, 332, 457</b>
New York.....	1, 069, 724	1, 451, 481	1, 908, 483	1, 705, 930	551, 174	707, 748	793, 336	646, 980
New Jersey.....	1, 189, 534	254, 833	311, 848	311, 084	93, 361	124, 143	142, 182	130, 331
Pennsylvania.....	1, 051, 629	1, 253, 275	1, 729, 353	1, 460, 702	575, 393	630, 430	726, 158	555, 146
<b>East North Central.....</b>	<b>5, 683, 925</b>	<b>10, 119, 128</b>	<b>17, 245, 363</b>	<b>12, 692, 988</b>	<b>3, 973, 024</b>	<b>7, 231, 699</b>	<b>12, 048, 074</b>	<b>7, 969, 004</b>
Ohio.....	1, 198, 924	1, 902, 695	3, 095, 666	2, 236, 902	817, 164	1, 285, 895	2, 015, 113	1, 299, 024
Indiana.....	978, 616	1, 809, 135	3, 042, 311	1, 931, 742	687, 633	1, 328, 197	2, 202, 566	1, 268, 777
Illinois.....	2, 004, 317	3, 905, 321	6, 666, 767	4, 627, 965	1, 514, 114	3, 090, 411	5, 250, 295	3, 426, 455
Michigan.....	690, 356	1, 088, 858	1, 763, 335	1, 523, 977	423, 570	615, 258	959, 187	764, 871
Wisconsin.....	811, 712	1, 413, 119	2, 677, 283	2, 272, 402	530, 543	911, 938	1, 618, 913	1, 209, 878
<b>West North Central.....</b>	<b>5, 820, 994</b>	<b>13, 535, 310</b>	<b>27, 991, 035</b>	<b>18, 879, 178</b>	<b>3, 892, 877</b>	<b>10, 052, 561</b>	<b>21, 340, 145</b>	<b>13, 303, 408</b>
Minnesota.....	788, 685	1, 476, 412	3, 787, 420	2, 761, 684	559, 302	1, 019, 102	2, 750, 328	1, 796, 600
Iowa.....	1, 834, 346	3, 745, 861	8, 524, 471	5, 602, 078	1, 256, 752	2, 801, 974	6, 679, 021	3, 969, 814
Missouri.....	1, 033, 122	2, 052, 917	3, 591, 068	2, 286, 639	695, 471	1, 445, 982	2, 594, 193	1, 562, 725
North Dakota.....	255, 267	974, 814	1, 759, 743	1, 191, 037	173, 352	730, 380	1, 279, 814	813, 722
South Dakota.....	297, 525	1, 166, 097	2, 823, 870	1, 658, 921	188, 207	902, 607	2, 231, 432	1, 201, 015
Nebraska.....	747, 550	2, 079, 819	4, 201, 656	2, 874, 478	486, 606	1, 614, 539	3, 330, 222	2, 125, 792
Kansas.....	864, 100	2, 039, 390	3, 302, 806	2, 504, 840	532, 188	1, 537, 977	2, 475, 635	1, 833, 379
<b>South Atlantic.....</b>	<b>1, 454, 031</b>	<b>2, 951, 201</b>	<b>6, 132, 918</b>	<b>4, 659, 177</b>	<b>899, 821</b>	<b>1, 883, 350</b>	<b>4, 000, 682</b>	<b>2, 980, 771</b>
Delaware.....	40, 698	63, 179	80, 138	72, 798	23, 769	34, 938	42, 116	34, 435
Maryland.....	204, 645	286, 167	463, 638	397, 093	120, 368	163, 452	259, 904	207, 274
Dist. of Columbia.....	11, 535	8, 477	5, 928	5, 003	9, 700	7, 194	4, 156	3, 564
Virginia.....	323, 516	625, 065	1, 196, 556	999, 466	200, 615	394, 659	756, 354	600, 676
West Virginia.....	230, 907	314, 739	496, 440	411, 159	134, 269	207, 076	307, 810	251, 793
North Carolina.....	233, 835	537, 716	1, 250, 167	1, 050, 016	141, 956	343, 165	857, 815	686, 425
South Carolina.....	153, 591	392, 128	953, 065	523, 084	99, 806	268, 775	647, 157	347, 087
Georgia.....	228, 375	580, 546	1, 356, 685	686, 673	138, 515	370, 353	897, 445	433, 649
Florida.....	53, 929	143, 183	330, 302	513, 884	30, 823	93, 738	228, 425	415, 869
<b>East South Central.....</b>	<b>1, 195, 869</b>	<b>2, 182, 772</b>	<b>4, 419, 417</b>	<b>2, 898, 526</b>	<b>708, 153</b>	<b>1, 326, 827</b>	<b>2, 916, 141</b>	<b>1, 827, 823</b>
Kentucky.....	471, 046	773, 798	1, 511, 901	963, 569	291, 117	484, 465	1, 050, 753	616, 214
Tennessee.....	341, 202	612, 521	1, 251, 916	883, 646	202, 014	371, 416	807, 782	555, 943
Alabama.....	179, 400	370, 138	690, 849	500, 740	100, 166	216, 944	415, 764	308, 664
Mississippi.....	204, 221	426, 315	964, 752	550, 571	114, 857	254, 002	641, 842	347, 002
<b>West South Central.....</b>	<b>1, 619, 955</b>	<b>3, 838, 154</b>	<b>7, 822, 066</b>	<b>5, 696, 760</b>	<b>953, 786</b>	<b>2, 716, 099</b>	<b>5, 408, 060</b>	<b>4, 176, 964</b>
Arkansas.....	181, 416	400, 089	924, 395	628, 846	105, 107	246, 021	607, 733	420, 735
Louisiana.....	198, 537	301, 221	589, 827	385, 911	107, 730	187, 803	383, 618	251, 738
Oklahoma.....	277, 525	918, 199	1, 660, 424	1, 210, 135	149, 398	649, 067	1, 171, 459	879, 335
Texas.....	962, 476	2, 218, 645	4, 447, 420	3, 471, 867	591, 551	1, 633, 207	3, 245, 209	2, 625, 157
<b>Mountain.....</b>	<b>601, 264</b>	<b>1, 757, 573</b>	<b>4, 083, 138</b>	<b>2, 758, 216</b>	<b>284, 065</b>	<b>1, 174, 370</b>	<b>2, 801, 712</b>	<b>1, 838, 980</b>
Montana.....	117, 860	347, 829	985, 961	574, 897	52, 661	226, 771	691, 912	389, 514
Idaho.....	67, 271	305, 317	716, 138	451, 885	35, 486	219, 953	511, 866	309, 769
Wyoming.....	67, 477	167, 189	334, 411	240, 396	23, 434	88, 908	210, 947	148, 168
Colorado.....	161, 045	491, 472	1, 076, 795	712, 285	90, 342	362, 822	763, 723	493, 974
New Mexico.....	53, 768	159, 448	325, 186	236, 301	17, 324	98, 806	196, 341	152, 033
Arizona.....	29, 994	75, 124	233, 593	194, 049	11, 416	42, 350	156, 563	126, 788
Utah.....	75, 175	150, 795	311, 275	250, 318	40, 127	99, 482	210, 998	159, 703
Nevada.....	28, 674	60, 399	99, 780	98, 086	13, 276	35, 277	59, 362	59, 031
<b>Pacific.....</b>	<b>1, 113, 330</b>	<b>2, 780, 492</b>	<b>5, 307, 011</b>	<b>4, 962, 634</b>	<b>842, 893</b>	<b>2, 246, 314</b>	<b>4, 166, 948</b>	<b>3, 878, 038</b>
Washington.....	144, 041	637, 543	1, 037, 430	823, 438	99, 311	517, 422	797, 651	584, 386
Oregon.....	172, 671	528, 244	818, 560	714, 410	113, 138	411, 696	586, 242	505, 141
California.....	796, 528	1, 614, 695	3, 431, 022	3, 424, 786	630, 445	1, 317, 195	2, 783, 055	2, 788, 511

¹ Figures for 1900 include Indian Territory

Source Bureau of the Census, Department of Commerce.

## BUILDINGS, IMPLEMENTS AND MACHINERY, AND LIVESTOCK, BY STATES

[All amounts in thousands of dollars]

Value of buildings				Value of implements and machinery		Value of livestock			Division and State
1900	1910	1920	1925	1920	1925	1910	1920	1925	
3,556,639	6,325,452	11,486,440	11,746,629	3,594,773	2,691,704	4,925,174	8,012,876	4,858,939	United States.
244,807	336,410	429,843	491,695	92,388	82,334	97,897	163,168	108,584	New England.
47,143	73,138	89,697	99,746	26,638	24,491	25,162	39,780	24,108	Maine
34,626	41,397	42,571	49,407	9,499	8,988	11,910	19,161	11,463	N Hampshire.
37,258	54,203	76,179	73,406	21,234	18,130	22,643	42,385	25,611	Vermont
71,094	88,636	119,934	144,166	19,360	17,044	20,741	33,524	21,758	Massachusetts
9,703	12,923	11,579	14,377	2,409	2,064	3,276	4,840	3,462	Rhode Island.
44,984	66,113	89,084	110,594	13,248	11,616	14,164	23,473	17,282	Connecticut.
729,070	980,628	1,340,482	1,467,377	359,152	333,490	349,160	588,394	345,893	Middle Atlantic.
336,960	476,998	631,726	720,145	169,867	169,385	183,091	313,555	170,419	New York.
69,230	92,991	108,141	132,205	25,459	23,452	24,889	36,065	25,095	New Jersey
322,880	410,639	600,594	615,026	163,826	140,652	141,480	238,775	149,878	Pennsylvania.
939,574	1,642,292	2,891,568	3,054,655	786,077	567,871	976,330	1,521,844	1,001,458	East N Central.
219,451	368,258	846,323	646,607	146,575	97,893	197,332	287,655	193,378	Ohio
154,102	266,079	451,078	422,964	127,403	79,740	173,860	261,264	156,262	Indiana.
251,468	432,381	747,099	773,004	222,620	147,104	308,804	446,154	281,402	Illinois
158,948	285,880	477,500	519,191	122,390	96,253	137,804	204,259	143,662	Michigan
155,605	289,694	568,969	688,889	167,089	146,883	158,529	322,312	226,754	Wisconsin.
758,406	1,562,105	3,129,350	3,227,843	1,162,988	816,333	1,551,708	2,358,601	1,531,954	West N. Central.
113,220	243,339	550,840	597,142	181,088	137,966	161,641	305,164	229,977	Minnesota.
240,803	455,406	922,752	984,632	309,172	227,282	393,003	613,526	420,349	Iowa
148,508	270,222	468,774	440,561	138,261	75,955	285,839	389,839	207,398	Missouri
25,428	92,277	209,208	206,381	114,187	76,631	108,250	157,035	94,303	North Dakota.
30,926	102,474	241,462	236,273	112,408	75,411	127,229	238,568	146,222	South Dakota.
91,054	198,808	381,885	398,282	153,104	111,799	222,222	336,444	238,605	Nebraska.
111,465	199,580	354,429	364,572	154,717	111,288	253,524	318,025	195,100	Kansas.
306,529	608,087	1,201,092	1,118,173	283,981	195,639	366,534	647,163	364,594	South Atlantic.
10,667	18,218	22,640	25,241	6,781	5,906	6,817	8,601	7,217	Delaware
54,811	78,286	126,693	134,087	28,970	22,885	32,570	48,071	32,846	Maryland.
1,574	1,037	1,421	1,231	104	108	153	246	100	Dist. of Col.
70,963	137,399	268,081	286,138	50,151	40,021	74,891	121,969	72,631	Virginia
34,027	57,315	103,474	104,361	18,395	15,687	43,336	67,261	39,319	West Virginia.
52,700	113,460	218,578	239,601	54,621	46,437	62,650	119,153	77,554	N Carolina.
26,956	64,113	166,327	110,536	48,062	23,105	45,131	91,518	42,357	S Carolina.
44,855	108,851	240,854	153,905	63,343	26,986	80,394	155,043	72,133	Georgia
9,977	24,408	53,025	63,073	13,552	14,504	20,591	35,301	20,439	Florida.
225,627	411,571	747,552	653,007	176,065	123,550	369,035	579,659	294,147	East S. Central.
90,887	150,995	254,406	231,213	48,355	30,629	117,487	158,387	85,513	Kentucky.
63,137	109,107	217,198	203,483	53,463	40,746	110,706	173,473	83,473	Tennessee.
34,453	71,309	127,894	106,195	34,366	23,851	65,595	112,825	62,031	Alabama.
37,150	80,160	148,054	112,116	39,881	28,323	75,247	134,974	63,129	Mississippi.
185,106	412,488	883,128	782,489	311,099	252,866	589,837	1,019,779	484,480	West S. Central.
30,076	63,145	145,337	119,992	43,432	31,255	74,058	127,853	56,865	Arkansas.
33,400	49,741	90,421	72,940	32,715	21,333	44,699	83,073	39,900	Louisiana.
21,407	89,611	192,406	169,422	80,631	58,379	152,433	215,928	102,998	Oklahoma
100,223	210,001	454,965	420,114	154,321	141,899	318,647	592,926	284,698	Texas
54,555	145,027	361,476	334,002	190,716	129,257	388,747	729,234	455,977	Mountain.
9,366	24,855	84,855	65,881	55,004	30,633	85,663	154,190	88,869	Montana.
6,832	25,113	69,646	63,557	38,417	26,526	49,775	96,209	52,033	Idaho.
3,532	9,007	23,801	24,508	11,778	9,172	65,066	87,885	58,548	Wyoming.
16,003	45,697	102,291	98,481	49,805	33,473	70,161	160,977	86,357	Colorado.
3,565	13,025	25,473	22,884	9,745	8,712	43,495	93,626	52,671	New Mexico.
2,267	4,936	15,763	17,226	8,821	6,928	26,051	52,447	43,107	Arizona.
10,652	18,063	32,754	32,499	13,515	10,097	28,782	54,008	48,019	Utah.
2,340	4,333	6,893	8,966	3,631	3,715	19,214	29,894	26,374	Nevada.
112,967	231,833	502,469	617,409	232,358	190,365	235,927	405,237	276,822	Pacific.
16,299	54,546	122,741	142,504	54,721	41,235	48,865	82,316	55,313	Washington.
19,200	43,880	88,971	110,927	41,567	35,643	59,462	101,779	62,699	Oregon.
77,468	133,406	290,756	363,977	136,069	113,488	127,600	221,141	158,810	California.



## No. 574.—AVERAGE VALUE PER FARM AND PER ACRE: BY STATES

Division and State	Average value per farm (dollars)							Average value of land per acre (dollars)			
	All farm property				Land and buildings						
	1900	1910	1920	1925	1910	1920	1925	1900	1910	1920	1925
United States.....	3, 563	6, 444	12, 084	8, 949	5, 471	10, 284	7, 764	15 57	32 40	57.36	40.81
New England.....	3, 333	4, 593	7, 492	6, 844	3, 806	5, 860	5, 678	13 79	19 38	28.73	26 10
Maine.....	2, 064	3, 320	5, 609	4, 914	2, 660	4, 232	3, 943	7 83	13 73	21 09	18 89
New Hampshire.....	2, 927	3, 833	5, 782	5, 084	3, 176	4, 385	4, 113	9 83	13 70	18.21	16 46
Vermont.....	3, 276	4, 445	7, 661	6, 511	3, 442	5, 473	4, 940	9 70	12 52	19.58	16 27
Massachusetts.....	4, 843	6, 135	9, 389	8, 770	5, 260	7, 737	7, 611	27 62	36 69	51 17	46 64
Rhode Island.....	4, 909	6, 234	8, 238	8, 552	5, 278	6, 463	7, 139	29 46	33 86	43 75	43 83
Connecticut.....	4, 205	5, 944	10, 019	9, 932	5, 158	8, 399	8, 689	22 68	33 03	53.28	49 85
Middle Atlantic.....	4, 759	6, 319	9, 290	8, 305	5, 216	7, 061	6, 694	27 19	33 86	40.96	35 54
New York.....	4, 718	6, 732	9, 879	9, 043	5, 495	7, 376	7, 243	24 34	32 13	38.45	33 57
New Jersey.....	5, 470	7, 610	10, 499	10, 484	6, 484	8, 428	8, 848	32 86	48 23	62.29	67 72
Pennsylvania.....	4, 690	5, 715	8, 551	7, 287	4, 747	6, 560	5, 838	29 70	33 92	41.12	34 07
East North Central.....	5, 004	9, 007	15, 898	11, 975	7, 899	13, 771	10, 483	34 15	61 32	102.31	70 66
Ohio.....	4, 333	6, 994	12, 060	9, 141	6, 080	10, 368	7, 951	33 35	53 34	85 69	58 48
Indiana.....	4, 410	8, 396	14, 831	9, 867	7, 399	12, 937	8, 661	31 81	62 36	104.57	63 71
Illinois.....	7, 588	15, 505	28, 108	20, 514	13, 986	25, 289	18, 615	46 17	95 02	164.20	111.49
Michigan.....	3, 396	5, 261	8, 970	7, 924	4, 354	7, 313	6, 676	24 12	32 48	50 40	42 41
Wisconsin.....	4, 781	7, 978	14, 143	11, 765	6, 784	11, 558	9, 830	26 71	43 30	73 09	55 37
West North Central.....	5, 488	12, 195	25, 517	18, 988	10, 464	22, 307	14, 875	19 37	43.21	83 04	53 62
Minnesota.....	5, 100	9, 456	21, 221	14, 672	8, 085	18, 496	12, 717	21 31	36 82	91.00	59 77
Iowa.....	8, 023	17, 269	39, 939	26, 240	15, 008	35, 616	23, 207	36 35	82 58	199.52	119 28
Missouri.....	3, 626	7, 405	13, 654	8, 779	6, 190	11, 646	7, 691	20 46	41 80	74 60	47 87
North Dakota.....	5, 631	13, 109	22, 651	15, 678	11, 063	19, 160	13, 428	11 15	25 69	35 33	23 70
South Dakota.....	5, 654	15, 018	37, 835	20, 857	12, 945	33, 132	18, 071	9 92	34 69	64 42	37 51
Nebraska.....	6, 155	16, 038	33, 771	22, 504	13, 933	29, 836	19, 760	16 27	41 80	78 87	50 58
Kansas.....	4, 992	11, 467	19, 982	15, 097	9, 770	17, 122	13, 250	12 77	35 45	54 50	41 93
South Atlantic.....	1, 511	2, 654	5, 292	4, 205	2, 236	4, 488	3, 699	8 63	18.15	40 99	33 65
Delaware.....	4, 201	5, 890	7, 903	7, 097	4, 905	6, 386	5, 818	22 29	33 63	44 59	38 28
Maryland.....	4, 448	5, 849	9, 678	8, 104	4, 941	8, 070	6, 966	23 28	32 32	54 62	46 75
District of Columbia.....	42, 832	39, 062	29, 059	35, 992	37, 932	27, 340	34, 500	1,142 68	1,186 53	733 27	934 71
Virginia.....	1, 927	3, 397	6, 425	5, 159	2, 891	5, 501	4, 578	10 08	20 24	40 75	34 90
West Virginia.....	2, 196	3, 255	5, 687	4, 549	2, 735	4, 706	3, 941	12 60	20 65	32 11	28 04
North Carolina.....	1, 041	2, 119	4, 634	3, 704	1, 800	3, 990	3, 267	6 24	15 29	42 84	36 92
South Carolina.....	989	2, 223	4, 946	3, 028	1, 887	4, 222	2, 649	7 14	19 89	52 08	32 62
Georgia.....	1, 016	1, 995	4, 366	2, 757	1, 647	3, 663	2, 359	5 25	13 74	35 28	19 76
Florida.....	1, 321	2, 863	6, 116	8, 678	2, 362	5, 212	8, 088	7 06	17 84	37 78	70 91
East South Central.....	1, 324	2, 094	4, 203	2, 881	1, 668	3, 484	2, 466	8 72	16 28	36 96	25 89
Kentucky.....	2, 007	2, 986	5, 587	3, 727	2, 452	4, 823	3, 278	13 24	21 83	48 62	30 95
Tennessee.....	1, 519	2, 490	4, 953	3, 497	1, 953	4, 055	3, 006	9 93	18 53	41 40	31 06
Alabama.....	804	1, 408	2, 698	2, 107	1, 096	2, 123	1, 746	4 84	10 46	21 24	18 44
Mississippi.....	925	1, 554	3, 546	2, 140	1, 218	2, 903	1, 785	6 30	13 69	35 27	21 62
West South Central.....	2, 146	4, 069	7, 652	5, 600	3, 317	6, 316	4, 875	5 40	16 06	31 18	25 31
Arkansas.....	1, 015	1, 864	3, 974	2, 833	1, 440	3, 238	2, 436	6 32	14 13	34 82	26 91
Louisiana.....	1, 712	2, 499	4, 354	2, 914	1, 971	3, 999	2, 451	9 74	17 99	38 29	28 49
Oklahoma.....	2, 570	4, 828	8, 649	6, 136	3, 884	7, 104	5, 318	6 50	22 49	36 66	28 49
Texas.....	2, 733	5, 311	10, 200	7, 456	4, 412	8, 486	6, 540	4 70	14 53	28 46	23 94
Mountain.....	5, 934	9, 581	16, 727	11, 818	7, 192	12, 958	9, 310	6 12	19 73	23 88	13 96
Montana.....	8, 815	13, 269	17, 095	12, 257	9, 599	13, 468	9, 709	4 45	16 74	19 73	11 90
Idaho.....	3, 850	9, 911	17, 008	11, 132	7, 955	13, 811	9, 197	11 07	41 63	61 11	38 17
Wyoming.....	11, 071	15, 217	21, 235	15, 497	8, 912	14, 907	11, 132	2 88	10 41	17 86	7 94
Colorado.....	6, 520	10, 645	17, 966	12, 277	8, 848	14, 449	10, 211	9 54	26 81	31 22	20 44
New Mexico.....	4, 367	4, 469	10, 896	7, 457	3, 135	7, 432	5, 520	3 38	8 77	26 04	5 46
Arizona.....	5, 163	8, 142	23, 418	17, 964	5, 125	17, 276	13, 332	5 90	33 97	8 98	11 46
Utah.....	3, 878	6, 957	12, 130	9, 631	5, 423	9, 499	7, 395	9 75	29 28	41 78	31 94
Nevada.....	13, 129	22, 462	31, 546	25, 260	14, 730	20, 947	17, 512	5 17	12 99	25 18	14 43
Pacific.....	7, 864	14, 643	22, 664	18, 686	13, 050	19, 941	18, 926	17 78	43 76	74 21	71 47
Washington.....	4, 338	11, 346	15, 952	11, 239	10, 179	13, 885	9, 921	11 63	44 18	60 22	46 34
Oregon.....	4, 821	11, 609	16, 304	12, 778	10, 012	13, 449	11, 019	11 23	35 23	43 29	35 75
California.....	10, 980	18, 308	29, 158	25, 107	16, 447	26, 122	23, 111	21 87	47 16	94 77	101 34

Source: Bureau of the Census, Department of Commerce.

## No. 575.—NUMBER OF FARMS: BY SIZE AND BY STATES

Division and State	Total	Under 20 acres	20 to 49 acres	50 to 99 acres	100 to 174 acres	175 to 259 acres	260 to 499 acres	500 to 999 acres	1,000 acres and over
<b>United States:</b>									
1900-----	5,737,372	673,870	1,257,496	1,366,038	1,422,262	490,069	377,951	102,526	47,160
1910-----	6,361,502	839,166	1,414,376	1,438,069	1,516,286	534,191	443,984	125,295	50,135
1920-----	6,448,343	796,535	1,503,732	1,474,745	1,449,630	530,800	475,677	149,819	67,405
1925-----	6,371,640	968,584	1,450,643	1,421,078	1,383,777	503,417	438,961	143,852	63,328
1925									
<b>New England-----</b>	<b>159,489</b>	<b>30,385</b>	<b>29,271</b>	<b>38,368</b>	<b>36,799</b>	<b>14,634</b>	<b>8,110</b>	<b>1,544</b>	<b>378</b>
Maine-----	50,033	5,883	7,967	14,744	14,051	4,738	2,199	374	77
New Hampshire-----	21,065	3,926	3,639	5,003	4,829	2,014	1,250	811	93
Vermont-----	27,786	3,540	2,885	4,980	8,309	4,628	2,893	471	80
Massachusetts-----	33,454	10,714	8,148	6,877	4,751	1,691	977	228	68
Rhode Island-----	3,911	1,011	894	962	659	221	122	28	14
Connecticut-----	23,240	5,311	5,738	5,802	4,200	1,342	669	132	46
<b>Middle Atlantic-----</b>	<b>418,888</b>	<b>74,437</b>	<b>71,373</b>	<b>117,598</b>	<b>108,546</b>	<b>32,548</b>	<b>12,665</b>	<b>1,413</b>	<b>288</b>
New York-----	188,756	28,790	27,357	49,538	53,869	19,730	8,447	871	146
New Jersey-----	29,671	9,275	6,649	6,622	5,414	1,216	405	62	28
Pennsylvania-----	200,443	36,366	37,367	61,438	49,263	11,602	3,813	480	114
<b>East North Central-----</b>	<b>1,051,572</b>	<b>96,958</b>	<b>168,002</b>	<b>319,425</b>	<b>311,568</b>	<b>104,801</b>	<b>45,703</b>	<b>4,472</b>	<b>643</b>
Ohio-----	244,703	31,424	42,232	81,637	65,978	16,710	6,062	664	96
Indiana-----	195,786	21,050	33,268	60,282	54,875	17,597	7,804	817	93
Illinois-----	225,601	16,843	25,239	47,079	77,268	38,172	19,149	1,685	166
Michigan-----	192,327	15,665	41,313	68,126	49,634	12,385	4,495	537	172
Wisconsin-----	193,155	11,976	25,950	62,401	63,813	19,937	8,193	769	116
<b>West North Central-----</b>	<b>1,111,314</b>	<b>59,990</b>	<b>89,897</b>	<b>170,817</b>	<b>351,199</b>	<b>169,204</b>	<b>194,331</b>	<b>58,840</b>	<b>17,309</b>
Minnesota-----	188,231	9,639	17,241	35,167	67,949	31,396	24,064	2,577	193
Iowa-----	213,490	13,125	12,593	34,528	86,373	41,475	28,503	1,789	104
Missouri-----	260,473	20,948	44,490	64,605	75,481	31,715	19,224	3,184	526
North Dakota-----	75,970	874	676	1,135	11,144	5,812	25,093	17,983	3,553
South Dakota-----	79,537	1,334	1,397	3,119	18,715	10,816	28,778	11,549	3,831
Nebraska-----	127,734	5,031	4,127	10,977	44,199	22,031	26,500	9,489	5,380
Kansas-----	165,879	9,339	9,303	20,786	47,338	25,959	37,171	12,269	3,714
<b>South Atlantic-----</b>	<b>1,108,061</b>	<b>233,729</b>	<b>354,421</b>	<b>255,439</b>	<b>180,805</b>	<b>55,534</b>	<b>34,718</b>	<b>10,076</b>	<b>3,339</b>
Delaware-----	10,257	1,536	2,299	2,909	2,368	789	300	52	4
Maryland-----	49,001	11,944	8,974	10,264	4,415	2,212	2,212	334	42
District of Columbia-----	139	88	39	7	2	1	2	-----	-----
Virginia-----	193,723	47,672	46,870	42,165	32,536	12,908	8,531	2,418	623
West Virginia-----	90,380	13,700	19,544	26,228	18,669	6,760	4,132	1,042	305
North Carolina-----	283,482	66,047	93,817	68,129	37,611	10,643	5,525	1,347	363
South Carolina-----	172,767	46,435	69,777	30,996	15,446	4,946	3,477	1,203	487
Georgia-----	249,095	28,686	93,303	64,638	36,537	12,877	8,820	3,084	1,150
Florida-----	59,217	17,621	19,798	10,103	6,820	2,195	1,719	596	365
<b>East South Central-----</b>	<b>1,006,052</b>	<b>224,494</b>	<b>346,230</b>	<b>222,577</b>	<b>138,159</b>	<b>42,199</b>	<b>24,372</b>	<b>6,077</b>	<b>1,944</b>
Kentucky-----	258,524	58,724	60,368	69,155	47,279	14,208	7,073	1,428	289
Tennessee-----	252,669	54,041	78,143	63,000	38,258	11,566	6,161	1,222	278
Alabama-----	237,631	36,171	104,080	53,667	27,885	8,255	5,351	1,616	651
Mississippi-----	257,228	75,558	103,689	36,755	24,737	8,170	5,782	1,811	726
<b>West South Central-----</b>	<b>1,017,305</b>	<b>135,318</b>	<b>297,911</b>	<b>235,016</b>	<b>205,986</b>	<b>59,030</b>	<b>53,645</b>	<b>18,063</b>	<b>12,336</b>
Arkansas-----	221,991	44,566	84,740	46,778	30,874	8,586	4,903	1,173	371
Louisiana-----	132,450	38,158	55,549	19,880	10,911	3,394	2,738	1,111	709
Oklahoma-----	197,218	10,280	34,986	47,375	65,102	14,965	19,201	4,054	1,255
Texas-----	465,646	42,314	122,636	120,983	99,099	32,085	26,803	11,725	10,001
<b>Mountain-----</b>	<b>233,392</b>	<b>26,678</b>	<b>26,892</b>	<b>27,522</b>	<b>40,306</b>	<b>13,942</b>	<b>48,134</b>	<b>31,877</b>	<b>18,041</b>
Montana-----	46,904	1,108	1,285	1,972	6,392	2,610	16,146	11,467	5,924
Idaho-----	40,592	3,704	7,697	8,625	9,315	3,216	5,089	2,186	760
Wyoming-----	15,512	261	325	890	2,257	868	3,540	4,114	3,226
Colorado-----	58,020	6,166	4,480	5,872	10,750	3,859	15,140	8,224	3,629
New Mexico-----	31,687	7,317	3,728	2,503	4,735	1,102	5,171	4,202	2,929
Arizona-----	10,802	2,072	2,196	1,886	2,328	413	742	523	642
Utah-----	25,992	5,638	6,608	5,143	3,753	1,609	1,817	807	617
Nevada-----	3,883	382	572	631	776	265	489	364	414
<b>Pacific-----</b>	<b>265,587</b>	<b>84,595</b>	<b>66,716</b>	<b>34,518</b>	<b>30,409</b>	<b>11,525</b>	<b>17,983</b>	<b>11,490</b>	<b>9,053</b>
Washington-----	73,267	24,016	17,567	9,506	8,222	2,902	5,003	3,601	2,150
Oregon-----	55,911	12,570	10,837	9,093	9,503	3,664	4,960	3,176	2,408
California-----	136,409	48,009	38,312	15,917	12,684	4,959	7,320	4,713	4,495

Source Bureau of the Census, Department of Commerce.

## No. 576.—NUMBER AND ACREAGE OF FARMS: BY SIZE, FOR EACH DIVISION

NOTE.—For totals for United States see Tables 575 and 578

Items, year, and division	Total	Under 20 acres	20 to 49 acres	50 to 99 acres	100 to 174 acres	175 to 499 acres	500 to 999 acres	1,000 acres and over
Number of farms								
<b>New England:</b>								
1900.....	191,888	28,018	33,805	49,389	48,039	30,007	2,133	497
1920.....	156,504	25,886	27,117	38,036	37,993	25,173	1,916	443
1925.....	159,489	30,385	29,271	38,368	36,799	22,744	1,544	378
<b>Middle Atlantic.</b>								
1900.....	485,618	75,165	84,330	142,341	129,501	51,815	1,907	559
1920.....	425,147	65,725	70,492	120,323	116,009	50,437	1,736	425
1925.....	418,868	74,437	71,373	117,598	108,546	45,213	1,413	288
<b>East North Central:</b>								
1900.....	1,135,823	100,071	230,411	350,291	301,629	146,901	5,569	951
1920.....	1,084,744	90,703	172,052	335,439	325,390	155,489	4,912	759
1925.....	1,051,572	96,958	168,002	319,425	311,568	150,504	4,472	643
<b>West North Central:</b>								
1900.....	1,060,744	47,650	110,718	212,600	354,794	288,187	36,186	10,609
1920.....	1,096,951	46,093	81,820	170,896	351,003	366,438	60,561	20,140
1925.....	1,111,314	59,990	89,827	170,617	351,199	363,535	58,840	17,306
<b>South Atlantic:</b>								
1900.....	962,225	147,165	265,623	216,522	181,290	128,541	17,191	5,893
1920.....	1,158,976	187,326	401,259	280,114	175,311	99,833	11,269	3,864
1925.....	1,108,061	233,729	354,421	255,439	160,805	90,252	10,076	3,339
<b>East South Central:</b>								
1900.....	903,313	153,359	280,010	204,914	159,531	92,783	9,777	2,939
1920.....	1,051,600	203,187	373,138	235,444	152,992	77,078	7,245	2,516
1925.....	1,006,052	224,494	346,230	222,577	138,159	66,571	6,077	1,944
<b>West South Central:</b>								
1900.....	754,853	84,898	218,481	161,611	178,015	82,662	15,047	14,139
1920.....	996,088	97,878	296,729	235,213	212,167	120,429	19,717	13,955
1925.....	1,017,305	135,318	297,911	235,016	205,986	112,675	18,063	12,336
<b>Mountain:</b>								
1900.....	101,327	16,366	12,685	11,243	33,963	17,553	4,982	4,585
1920.....	244,109	22,071	25,392	26,896	45,855	77,982	30,005	15,908
1925.....	233,392	26,678	26,892	27,522	40,306	62,076	31,877	18,041
<b>Pacific.</b>								
1900.....	141,581	21,178	21,433	17,127	35,500	29,571	9,784	6,988
1920.....	234,164	57,666	55,733	32,384	32,910	33,618	12,458	9,395
1925.....	265,587	84,595	66,716	34,516	30,409	28,808	11,490	9,053
Acreage in farms (thousands of acres)								
<b>All land in farms, 1925:</b>								
New England.....	15,858	286	951	2,682	4,665	5,727	979	568
Middle Atlantic.....	37,491	692	2,361	8,417	13,761	10,852	996	414
East North Central.....	112,752	895	5,896	23,984	41,163	30,920	3,128	767
West North Central.....	248,081	531	3,119	13,033	50,345	104,811	40,320	35,922
South Atlantic.....	88,569	2,536	11,051	17,331	20,190	23,428	6,979	7,054
East South Central.....	70,607	2,634	10,615	15,422	17,520	16,977	4,206	3,231
West South Central.....	165,013	1,633	9,474	16,538	27,899	30,885	12,326	66,253
Mountain.....	131,689	219	896	2,037	5,919	20,114	22,266	80,236
Pacific.....	54,258	729	2,043	2,463	4,248	8,049	8,029	28,096
<b>Crop land harvested, 1924:</b>								
New England.....	4,448	159	379	901	1,390	1,394	162	62
Middle Atlantic.....	16,482	402	1,271	4,315	6,311	8,907	226	49
East North Central.....	59,114	422	2,887	12,663	22,200	19,555	1,210	177
West North Central.....	130,979	259	1,621	7,204	30,708	63,404	19,747	8,035
South Atlantic.....	27,212	1,862	6,848	6,761	5,513	4,743	939	545
East South Central.....	23,696	2,197	7,146	5,815	4,488	3,220	547	284
West South Central.....	51,335	1,438	7,511	10,230	14,185	12,688	3,152	2,131
Mountain.....	19,706	141	547	1,155	2,324	6,385	4,688	4,466
Pacific.....	11,578	461	1,174	1,154	1,384	2,578	1,885	2,941

Source Bureau of the Census, Department of Commerce

No. 577.—NUMBER OF FARMS: By SIZE AND BY TENURE AND COLOR OF OPERATOR

Size of farm, tenure, and color	1880	1890	1900	1910	1920	1925
<b>BY SIZE</b>						
<b>Number, total</b> .....	4, 008, 907	4, 584, 641	5, 737, 372	6, 361, 502	6, 448, 343	6, 371, 640
Under 10 acres.....	139, 241	150, 194	267, 229	335, 043	288, 772	378, 535
10 to 19 acres.....	254, 749	265, 550	406, 641	504, 123	507, 763	588, 049
20 to 49 acres.....	781, 574	902, 777	1, 257, 496	1, 414, 376	1, 503, 732	1, 450, 643
50 to 99 acres.....	1, 032, 810	1, 121, 485	1, 366, 038	1, 438, 069	1, 474, 745	1, 421, 078
100 to 499 acres.....	1, 695, 983	2, 008, 694	2, 290, 282	2, 494, 461	2, 456, 107	2, 326, 155
100 to 174 acres.....	—	—	1, 422, 262	1, 516, 286	1, 449, 630	1, 383, 777
175 to 259 acres.....	—	—	490, 069	534, 191	530, 800	503, 417
260 to 499 acres.....	—	—	377, 951	443, 984	475, 677	438, 961
500 to 999 acres.....	75, 972	84, 395	102, 526	125, 295	149, 819	143, 852
1,000 acres and over.....	28, 578	31, 546	47, 160	50, 135	67, 405	63, 328
<b>Per cent distribution, total</b> .....	100 0	100 0	100 0	100 0	100 0	100 0
Under 10 acres.....	3 5	3 3	4 7	5 3	4 5	5 9
10 to 19 acres.....	6 4	5 8	7 1	7 9	7 9	9 2
20 to 49 acres.....	19 5	19 8	21 9	22 2	23 3	22 8
50 to 99 acres.....	25 8	24 6	23 8	22 6	22 9	22 3
100 to 499 acres.....	42 3	44 0	39 9	39 2	38 1	36 5
100 to 174 acres.....	—	—	24 8	23 8	22 5	21 7
175 to 259 acres.....	—	—	8 5	8 4	8 2	7 9
260 to 499 acres.....	—	—	6 6	7 0	7 4	6 9
500 to 999 acres.....	1 9	1 8	1 8	2 0	2 3	2 3
1,000 acres and over.....	7	7	8	8	1 0	1 0
<b>BY TENURE</b>						
<b>Owners and managers, total</b> .....	2, 984, 306	3, 289, 728	3, 712, 408	4, 006, 826	3, 993, 539	3, 909, 032
Owners.....	—	—	3, 653, 323	3, 948, 722	3, 925, 090	3, 868, 332
Owning entire farm.....	—	—	3, 201, 947	3, 354, 897	3, 366, 510	3, 313, 490
Hiring additional land.....	—	—	451, 376	593, 825	558, 580	554, 842
Managers.....	—	—	59, 085	58, 104	68, 449	40, 700
<b>Tenants, total</b> .....	1, 024, 601	1, 294, 913	2, 024, 964	2, 354, 676	2, 454, 804	2, 462, 608
Share and share-cash.....	702, 244	840, 254	1, 273, 299	1, 528, 389	1, 806, 634	2, 069, 156
Northern and Western States.....	—	—	—	—	—	2 650, 471
Number related to landlord.....	—	—	—	—	—	2 189, 373
Cash and unspecified.....	322, 357	454, 659	751, 665	826, 287	1 648, 170	3 398, 452
Northern and Western States.....	—	—	—	—	—	3 210, 838
Number related to landlord.....	—	—	—	—	—	3 56, 085
<b>Per cent distribution, total</b> .....	100 0	100 0	100 0	100 0	100 0	100 0
Owners.....	74 4	71 6	63 7	62 1	60 9	60 7
Managers.....	25 6	28 4	1 0	9	1 1	6
Tenants.....	—	—	35 3	37 0	38 1	38 6
<b>BY COLOR AND TENURE OF FARMER</b>						
<b>White farmers, total</b> .....	—	—	4, 969, 608	5, 440, 619	5, 498, 454	5, 540, 185
Owners, total.....	—	—	3, 446, 806	3, 707, 501	3, 691, 868	3, 673, 792
Owning entire farm.....	—	—	3, 025, 931	3, 159, 088	3, 174, 109	3, 153, 839
Hiring additional land.....	—	—	420, 875	548, 413	517, 759	519, 953
Managers.....	—	—	57, 261	56, 560	66, 223	40, 033
Tenants, total.....	—	—	1, 465, 541	1, 676, 558	1, 740, 363	1, 826, 390
Share and share-cash.....	—	—	988, 539	1, 140, 215	1, 283, 337	1, 511, 668
Cash and unspecified.....	—	—	477, 002	536, 343	1 457, 026	3 314, 692
<b>Colored farmers, total</b> .....	—	—	767, 764	920, 883	949, 889	831, 455
Owners, total.....	—	—	206, 517	241, 221	233, 222	194, 540
Owning entire farm.....	—	—	176, 016	195, 809	192, 401	159, 651
Hiring additional land.....	—	—	30, 501	45, 412	40, 821	34, 889
Managers.....	—	—	1, 824	1, 544	2, 226	667
Tenants, total.....	—	—	559, 423	678, 118	714, 441	636, 248
Share and share-cash.....	—	—	284, 760	388, 174	1 523, 297	3 557, 488
Cash and unspecified.....	—	—	274, 663	289, 944	1 191, 144	3 78, 760
<b>COLORED FARMERS, BY RACE</b>						
<b>Total</b> .....	—	—	767, 764	920, 883	949, 889	831, 455
Negroes.....	—	—	746, 715	893, 370	925, 708	( <sup>c</sup> )
Indians.....	—	—	19, 910	24, 251	16, 630	( <sup>c</sup> )
Japanese.....	—	—	39	2, 502	6, 892	( <sup>c</sup> )
Chinese.....	—	—	1, 100	760	609	( <sup>c</sup> )

<sup>1</sup> Share and share-cash tenants include croppers and cash tenants include standing renters reported in the Southern States in 1920

<sup>2</sup> Includes all tenants except cash tenants

<sup>3</sup> Cash tenants only.

<sup>4</sup> Includes the few colored farmers in the North and the West.

<sup>5</sup> South only.

<sup>6</sup> Not available.

Source: Bureau of the Census, Department of Commerce.

## No. 578.—ACREAGE OF FARM LAND: BY SIZE OF FARM AND BY TENURE AND COLOR OF OPERATOR

[Acreage in thousands]

Size of farm, tenure, and color	Acreage				Per cent distribution			
	1900	1910	1920	1925	1900	1910	1920	1925
<b>BY SIZE OF FARM</b>								
<b>All farm land, total</b> .....	838, 592	878, 798	955, 884	924, 319	100 0	100. 0	100 0	100 0
Under 20 acres.....	7, 181	8, 794	8, 689	10, 156	. 9	1. 0	. 9	1 1
20 to 49 acres.....	41, 536	45, 378	48, 464	46, 406	5 0	5. 2	5 1	5. 0
50 to 99 acres.....	98, 592	103, 121	105, 631	101, 907	11 8	11. 7	11 1	11. 0
100 to 174 acres.....	192, 680	205, 481	194, 681	185, 710	23 0	23 4	20 4	20 1
175 to 499 acres.....	232, 955	265, 289	276, 807	258, 362	27 8	30. 2	29 0	28 0
500 to 999 acres.....	67, 864	83, 653	100, 976	99, 230	8 1	9 5	10 6	10 7
1,000 acres and over.....	197, 784	167, 082	220, 636	222, 549	23 6	19. 0	23. 1	24. 1
<b>Improved farm land, total</b> <sup>1, 2</sup> .....	414, 498	478, 452	503, 073	<sup>2</sup> 844, 549	100. 0	100 0	100 0	<sup>2</sup> 100 0
Under 20 acres.....	6, 440	7, 992	7, 804	7, 342	1 6	1. 7	1 6	2 1
20 to 49 acres.....	33, 001	36, 596	38, 508	29, 842	8 0	7. 6	7 7	8 5
50 to 99 acres.....	67, 345	71, 155	72, 622	60, 199	16 2	14 9	14 4	14 6
100 to 174 acres.....	118, 391	128, 854	128, 201	88, 503	28 6	26. 9	25 5	25. 7
175 to 499 acres.....	135, 530	161, 776	170, 075	117, 875	32. 7	33 8	33 8	34 2
500 to 999 acres.....	29, 475	40, 817	48, 135	32, 557	7. 1	8 5	9 6	9. 4
1,000 acres and over.....	24, 317	31, 263	37, 729	18, 691	5. 9	6. 5	7. 5	5 4
<b>BY TENURE</b>								
<b>All farm land, total</b> .....	838, 592	878, 798	955, 884	924, 319	100. 0	100. 0	100 0	100. 0
<b>Owners</b> .....	556, 040	598, 555	638, 778 <sup>3</sup>	616, 336	66. 3	68 1	66 8	66 7
Owning entire farm.....	431, 261	464, 823	461, 250	419, 446	51. 4	52 9	48 3	45 4
Hiring additional land.....	124, 779	133, 631	175, 525	196, 890	14. 9	15. 2	18 4	21. 3
<b>Managers</b> .....	87, 518	53, 731	54, 129	43, 097	10. 4	6. 1	5 7	4. 7
<b>Tenants</b> .....	195, 034	226, 513	264, 980	264, 887	23. 3	25 8	27. 7	28. 7
Share.....	123, 054	123, 054	<sup>3</sup> 160, 723	180, 645	14 0	14 0	16. 8	22 8
Share-cash.....	117, 710	19, 390	24, 334	210, 696	14 0	2 2	2 5	5 9
Cash.....	67, 847	<sup>5</sup> 71, 482	19, 198	54, 190	9. 2	7 7	7 5	5 9
Unspecified.....	77, 323	16, 222	8, 441			1. 8	. 9	
<b>Improved farm land, total</b> <sup>2</sup> .....	414, 498	478, 452	503, 073	<sup>2</sup> 844, 549	100 0	100 0	100 0	<sup>2</sup> 100 0
<b>Owners</b> .....	278, 231	309, 850	314, 107	199, 402	67 1	64 8	62 4	57 9
Owning entire farm.....	221, 489	233, 809	235, 132	198, 650	53 4	48 9	46 7	40. 2
Hiring additional land.....	56, 742	76, 042	78, 975	60, 759	13. 7	15. 9	15 7	17. 6
<b>Managers</b> .....	10, 910	12, 314	13, 211	5, 299	2. 6	2 6	2. 6	1. 5
<b>Tenants</b> .....	126, 358	156, 287	175, 755	189, 842	30. 2	32 7	34 9	40. 6
Share.....	89, 738	89, 738	<sup>3</sup> 112, 880	112, 880	20 0	18 8	22 4	<sup>4</sup> 35. 0
Share-cash.....	82, 773	15, 924	19, 933	180, 645	20 0	3 3	4 0	
Cash.....	41, 566	<sup>5</sup> 38, 386	19, 198	19, 198	10. 3	8 7	7. 6	5 6
Unspecified.....	42, 584	9, 059	4, 555			1. 9	. 9	
<b>BY COLOR OF FARMER</b>								
<b>All farm land, total</b> .....	838, 592	878, 798	955, 884	924, 319	100 0	100 0	100 0	100. 0
White farmers.....	796, 826	832, 166	910, 939	(6)	95 0	94 7	95 3	(6)
Colored farmers.....	41, 766	46, 632	44, 945	(6)	5. 0	5 3	4 7	(6)
<b>Improved farm land, total</b> <sup>2</sup> .....	414, 498	478, 452	503, 073	<sup>2</sup> 844, 549	100 0	100 0	100 0	100 0
White farmers.....	390, 201	449, 418	473, 775	(6)	94 1	93 9	94. 2	(6)
Colored farmers.....	24, 297	29, 033	29, 298	(6)	5 9	6 1	5 8	(6)

<sup>1</sup> The classification by size in this section of the table, as in the preceding section, is based on the entire area of each farm.

<sup>2</sup> Data for improved land are not available for 1925 (see headnote, Table 569). All data shown for 1925 under improved land represent crop land harvested, 1924.

<sup>3</sup> Includes croppers reported in Southern States only.

<sup>4</sup> Includes all tenants except cash tenants.

<sup>5</sup> Includes standing renters.

<sup>6</sup> Not available.

Source: Bureau of the Census, Department of Commerce.

## No. 579.—NUMBER OF FARMS: BY TENURE AND BY STATES

NOTE.—Total number of farms (all tenures combined) in Table 572. Acreage by tenure in Table 580

Division and State	Number of farms operated by—								
	Owners			Managers			Tenants		
	1910	1920	1925	1910	1920	1925	1910	1920	1925
United States.....	3, 948, 722	3, 925, 090	3, 868, 332	58, 104	68, 448	40, 700	2, 354, 676	2, 454, 804	2, 462, 608
New England.....	188, 408	140, 160	148, 159	5, 379	4, 802	2, 482	15, 015	11, 602	8, 888
Maine.....	56, 454	45, 437	47, 984	999	786	350	2, 563	2, 004	1, 699
New Hampshire.....	24, 494	18, 604	19, 895	681	546	156	1, 879	1, 373	1, 014
Vermont.....	28, 065	25, 121	24, 889	636	568	307	4, 008	3, 386	2, 580
Massachusetts.....	32, 075	28, 087	30, 870	1, 803	1, 627	979	2, 979	2, 287	1, 605
Rhode Island.....	4, 087	3, 245	3, 203	251	205	176	954	633	472
Connecticut.....	23, 234	19, 666	21, 258	949	1, 070	494	2, 632	1, 919	1, 488
Middle Atlantic.....	355, 036	327, 104	348, 179	9, 072	9, 853	4, 465	104, 271	88, 190	66, 224
New York.....	166, 674	151, 717	159, 949	4, 051	4, 376	2, 261	44, 872	37, 102	26, 544
New Jersey.....	24, 133	21, 889	24, 535	1, 060	987	413	8, 204	6, 826	4, 723
Pennsylvania.....	164, 229	153, 498	163, 695	3, 961	4, 490	1, 791	51, 105	44, 262	34, 957
East North Central.....	809, 044	768, 788	771, 876	10, 848	13, 551	6, 606	303, 597	304, 407	273, 090
Ohio.....	192, 104	177, 986	181, 347	2, 753	3, 065	1, 060	77, 188	75, 644	62, 296
Indiana.....	148, 501	137, 210	137, 429	2, 297	2, 329	1, 268	64, 687	65, 587	57, 089
Illinois.....	145, 107	132, 574	129, 074	2, 386	3, 411	1, 877	104, 379	101, 196	94, 650
Michigan.....	172, 310	159, 406	161, 974	1, 961	2, 319	1, 234	32, 689	34, 722	29, 119
Wisconsin.....	151, 022	169, 610	162, 052	1, 451	2, 427	1, 167	24, 654	27, 258	29, 936
West North Central.....	768, 946	711, 156	685, 797	8, 384	10, 776	5, 569	342, 618	375, 019	419, 948
Minnesota.....	122, 104	132, 744	136, 382	1, 222	1, 596	766	32, 811	44, 138	51, 083
Iowa.....	133, 003	121, 888	116, 444	1, 926	2, 487	1, 650	82, 115	89, 064	95, 396
Missouri.....	192, 285	185, 030	174, 383	2, 001	2, 247	1, 063	82, 958	75, 727	85, 027
North Dakota.....	63, 212	56, 917	49, 513	484	855	361	10, 664	19, 918	26, 096
South Dakota.....	57, 984	47, 815	46, 160	429	781	331	19, 231	26, 041	33, 046
Nebraska.....	79, 260	69, 672	67, 766	987	1, 315	669	49, 441	53, 430	59, 299
Kansas.....	111, 108	97, 090	95, 149	1, 335	1, 495	729	65, 398	66, 701	70, 001
South Atlantic.....	593, 154	607, 089	609, 304	8, 288	9, 799	6, 137	510, 429	542, 088	492, 620
Delaware.....	6, 178	6, 010	6, 515	123	144	74	4, 535	3, 986	3, 668
Maryland.....	33, 519	32, 805	35, 138	988	1, 202	936	14, 416	13, 841	12, 927
District of Columbia.....	118	100	81	15	19	19	84	85	39
Virginia.....	133, 604	136, 363	143, 587	1, 625	2, 134	1, 238	48, 729	47, 745	48, 898
West Virginia.....	75, 978	72, 101	74, 943	872	1, 090	662	19, 835	14, 098	14, 775
North Carolina.....	145, 320	151, 376	154, 805	1, 118	928	423	107, 287	117, 459	128, 254
South Carolina.....	64, 350	67, 724	68, 969	863	738	368	111, 221	124, 331	112, 430
Georgia.....	98, 628	102, 123	88, 680	1, 419	1, 655	1, 407	190, 980	206, 954	159, 008
Florida.....	35, 399	38, 487	45, 586	1, 275	1, 829	1, 010	13, 342	13, 689	12, 621
East South Central.....	510, 452	525, 808	497, 825	3, 290	3, 506	1, 731	528, 738	522, 266	506, 496
Kentucky.....	170, 332	179, 327	175, 442	993	969	281	87, 860	90, 330	82, 501
Tennessee.....	144, 125	148, 082	148, 627	826	807	324	101, 061	103, 885	103, 718
Alabama.....	103, 929	107, 089	92, 948	646	741	448	158, 326	148, 269	144, 235
Mississippi.....	92, 066	91, 310	80, 808	825	989	678	181, 491	179, 802	175, 742
West South Central.....	440, 905	464, 328	412, 064	4, 696	5, 013	3, 058	497, 585	526, 747	602, 183
Arkansas.....	106, 649	112, 647	95, 476	763	736	616	107, 266	119, 221	125, 899
Louisiana.....	52, 989	57, 254	52, 386	950	828	503	66, 607	77, 381	79, 561
Oklahoma.....	85, 404	93, 217	81, 226	651	935	494	104, 137	97, 836	115, 498
Texas.....	195, 863	201, 210	182, 976	2, 332	2, 514	1, 445	219, 575	232, 309	281, 225
Mountain.....	160, 844	202, 615	179, 198	2, 912	4, 118	2, 410	19, 690	37, 478	51, 784
Montana.....	23, 365	50, 271	36, 281	505	899	367	2, 344	6, 507	10, 256
Idaho.....	27, 169	34, 647	30, 195	450	758	511	3, 188	6, 701	9, 886
Wyoming.....	9, 779	13, 403	12, 545	311	377	191	897	1, 968	2, 776
Colorado.....	36, 993	45, 291	39, 517	787	880	585	8, 390	13, 763	17, 918
New Mexico.....	33, 398	25, 756	26, 005	321	433	256	1, 957	3, 655	5, 426
Arizona.....	8, 203	7, 869	8, 179	163	305	296	861	1, 801	2, 327
Utah.....	19, 762	22, 579	23, 013	194	296	90	1, 720	2, 787	2, 889
Nevada.....	2, 175	2, 099	3, 463	181	168	114	333	296	306
Pacific.....	151, 933	180, 144	215, 930	5, 225	7, 033	8, 262	32, 733	46, 987	41, 395
Washington.....	47, 505	52, 701	60, 389	961	1, 168	935	7, 726	12, 419	11, 943
Oregon.....	37, 796	39, 863	45, 887	847	916	618	6, 859	9, 427	9, 406
California.....	66, 632	87, 580	109, 654	3, 417	4, 949	6, 709	18, 148	25, 141	20, 046

Source. Bureau of the Census, Department of Commerce.

# No. 580.—FARM ACREAGE, TOTAL AND CROP LAND HARVESTED: BY TENURE AND BY STATES

NOTE.—For total farm acreage and total crop land harvested (all tenures combined) see Tables 571 and 572. Data for owners include land exclusively owned and the additional land rented and operated by the owner

[All figures are expressed in thousands of acres]

Division and State	All land in farms operated by—									Cropland harvested in 1924 on farms operated by—		
	Owners			Managers			Tenants			Owners	Managers	Tenants
	1910	1920	1925	1910	1920	1925	1910	1920	1925			
United States.....	568,555	636,775	616,336	53,731	54,129	43,097	228,513	264,980	264,887	199,408	5,299	139,642
New England.....	17,089	14,705	14,344	1,087	980	581	1,588	1,308	934	4,015	148	285
Maine.....	5,916	5,074	4,936	157	146	71	224	206	154	1,529	26	50
New Hampshire.....	2,864	2,296	2,109	210	154	58	176	153	96	488	12	23
Vermont.....	3,816	3,521	3,407	209	150	100	638	565	419	959	24	144
Massachusetts.....	2,343	2,022	2,051	331	313	212	202	159	104	549	49	27
Rhode Island.....	318	249	248	44	30	24	81	53	37	55	6	8
Connecticut.....	1,832	1,543	1,593	137	187	116	217	169	123	434	31	32
Middle Atlantic.....	30,283	29,019	29,464	1,714	1,923	910	11,194	9,631	7,117	12,582	353	3,547
New York.....	15,825	15,084	15,459	838	932	496	5,367	4,616	3,315	6,559	171	1,561
New Jersey.....	1,563	1,425	1,404	227	208	68	784	649	452	647	31	230
Pennsylvania.....	12,896	12,510	12,600	648	782	346	5,043	4,366	3,350	5,776	152	1,756
East North Central.....	80,234	76,518	75,580	2,354	2,867	1,651	35,341	38,350	35,521	36,732	738	21,644
Ohio.....	16,032	15,000	15,083	505	562	266	7,569	6,870	6,802	116	3,785	3,170
Indiana.....	13,939	12,870	12,687	483	473	288	6,877	7,720	6,298	143	4,175	4,780
Illinois.....	17,787	16,265	15,798	558	713	450	14,177	14,997	14,485	9,335	255	10,165
Michigan.....	15,107	14,541	14,470	453	588	369	3,381	3,904	3,197	6,753	112	1,636
Wisconsin.....	17,369	17,841	17,562	355	532	279	3,336	3,775	4,010	7,543	107	1,888
West North Central.....	164,790	168,570	155,780	5,005	6,079	3,497	62,855	82,324	88,085	76,292	1,068	53,699
Minnesota.....	20,669	21,014	20,186	414	443	224	6,593	8,765	9,649	11,355	117	6,457
Iowa.....	20,214	18,051	17,092	491	569	390	13,226	14,855	15,799	10,479	211	10,777
Missouri.....	25,189	24,687	22,733	630	664	350	8,772	9,423	9,559	8,912	113	6,635
North Dakota.....	23,587	26,850	23,523	477	811	271	4,363	8,553	10,533	13,187	152	6,599
South Dakota.....	19,315	24,169	20,937	635	890	771	6,067	9,577	10,310	9,211	109	6,473
Nebraska.....	26,976	26,422	25,555	1,095	1,480	776	10,552	14,323	15,693	10,707	196	8,907
Kansas.....	28,840	27,377	25,763	1,264	1,221	714	13,281	16,827	17,263	12,371	169	9,841
South Atlantic.....	69,130	61,798	58,301	3,384	4,402	3,511	31,288	31,575	26,758	14,182	626	12,424
Delaware.....	477	451	465	21	21	16	541	472	418	198	8	198
Maryland.....	2,905	2,751	2,674	207	259	182	1,945	1,748	1,577	1,012	75	691
Dist. of Columbia.....	2	2	2	1	1	2	1	1	1	1	(1)	
Virginia.....	14,715	13,761	13,311	660	824	514	4,120	3,976	3,385	2,892	99	977
West Virginia.....	8,184	7,813	7,483	285	356	211	1,558	1,400	1,286	1,381	41	254
North Carolina.....	15,656	13,442	12,533	582	386	232	6,200	6,194	5,829	2,960	36	2,679
South Carolina.....	8,052	6,717	5,987	547	425	293	4,913	5,285	4,359	1,681	42	2,588
Georgia.....	14,851	12,801	11,889	779	926	800	11,323	11,714	9,257	3,086	224	4,817
Florida.....	4,287	4,060	3,958	281	1,202	1,260	686	784	647	951	100	318
East South Central.....	57,132	54,022	49,049	1,603	1,529	923	22,785	23,347	20,635	11,859	187	11,650
Kentucky.....	17,463	16,792	15,829	315	270	137	4,411	4,551	3,947	3,775	23	1,586
Tennessee.....	14,673	13,779	13,025	335	221	124	5,034	5,511	4,751	3,638	30	2,542
Alabama.....	13,280	12,117	10,086	367	455	245	7,085	7,004	6,408	2,631	55	3,955
Mississippi.....	11,716	11,334	10,108	587	583	416	6,255	6,280	5,529	2,015	79	3,567
West South Central.....	104,353	104,781	97,711	19,698	16,511	11,998	45,098	52,157	55,305	22,317	545	28,473
Arkansas.....	12,390	11,810	10,027	328	352	218	4,698	5,295	5,287	2,962	94	3,171
Louisiana.....	6,766	6,255	5,624	986	900	590	2,687	2,864	2,624	1,494	169	1,822
Oklahoma.....	15,987	18,472	15,608	429	926	1,327	12,434	12,554	13,933	6,877	81	7,890
Texas.....	69,201	68,244	66,451	17,955	14,333	9,762	25,279	31,444	33,461	10,984	201	15,890
Mountain.....	42,266	90,889	98,542	11,004	12,974	14,047	6,284	13,475	19,100	14,108	610	4,988
Montana.....	10,641	28,953	25,365	1,430	2,860	1,912	1,475	3,258	5,459	4,825	15	1,439
Idaho.....	4,446	6,799	6,185	270	386	272	567	1,191	1,459	1,843	62	874
Wyoming.....	5,153	9,360	15,062	2,863	1,466	1,939	527	984	1,662	1,222	65	285
Colorado.....	10,135	18,622	17,387	1,140	1,596	1,285	2,257	4,244	5,496	3,789	143	2,017
New Mexico.....	7,096	17,854	19,800	3,196	3,863	4,733	978	2,693	3,317	987	47	313
Arizona.....	875	3,820	7,580	265	1,391	2,515	107	592	970	251	87	119
Utah.....	2,888	4,063	4,469	315	616	184	194	372	347	891	14	119
Nevada.....	1,032	1,420	2,693	1,524	796	1,208	158	141	190	301	39	23
Pacific.....	33,277	36,473	37,566	7,900	6,865	5,980	10,152	12,815	10,713	7,412	1,024	3,142
Washington.....	9,115	9,260	9,042	529	541	360	2,068	3,444	3,208	2,099	105	1,059
Oregon.....	9,036	10,017	10,853	766	838	901	1,883	2,687	2,377	1,844	81	667
California.....	15,125	17,196	17,672	6,605	5,485	4,718	6,201	6,684	5,127	3,468	838	1,417

<sup>1</sup> Less than 500.

Source. Bureau of the Census, Department of Commerce.

**No. 581.—PERCENTAGE OF TOTAL NUMBER OF FARMS AND TOTAL ACREAGE OPERATED BY TENANTS: BY STATES**

Division and State	Per cent of total operated by tenants											
	Number of farms			All land in farms			Improved land in farms		Crop land harvested, 1924	Related to landlord, 1925		
	1910	1920	1925	1910	1920	1925	1910	1920		Cash	Other	
<b>United States.....</b>	<b>37 0</b>	<b>38 1</b>	<b>38 6</b>	<b>25 8</b>	<b>27 7</b>	<b>28 7</b>	<b>32 7</b>	<b>34 9</b>	<b>40 6</b>	<b>128 6</b>	<b>129 1</b>	
<b>New England.....</b>	<b>8 0</b>	<b>7 4</b>	<b>6 6</b>	<b>7 8</b>	<b>7 7</b>	<b>6 9</b>	<b>8 5</b>	<b>8 4</b>	<b>6 4</b>	<b>16 0</b>	<b>30 9</b>	
Maine.....	4.3	4.2	3.4	3.6	3.8	3.0	3.6	3.8	3.1	16.3	41.1	
New Hampshire.....	6.9	6.7	4.8	5.4	5.9	4.2	6.1	6.5	4.5	12.7	44.2	
Vermont.....	12.3	11.6	9.3	13.7	13.3	10.7	15.9	14.7	12.7	19.2	27.4	
Massachusetts.....	8.1	7.1	4.8	7.0	6.4	4.4	7.1	6.6	4.3	15.8	25.5	
Rhode Island.....	18.0	15.5	12.1	18.2	15.9	12.1	19.3	16.0	12.1	14.7	40.5	
Connecticut.....	9.8	8.5	6.4	9.9	8.9	6.7	10.1	8.9	6.5	15.5	27.9	
<b>Middle Atlantic.....</b>	<b>22 3</b>	<b>20 7</b>	<b>15 8</b>	<b>25 9</b>	<b>23 7</b>	<b>19 0</b>	<b>27 7</b>	<b>25 4</b>	<b>21 5</b>	<b>20 4</b>	<b>28 2</b>	
New York.....	20.8	19.2	14.1	24.4	22.4	17.2	25.6	23.5	18.8	21.7	28.7	
New Jersey.....	24.8	23.0	15.9	30.4	28.5	23.5	32.8	31.0	25.3	15.5	25.0	
Pennsylvania.....	23.3	21.9	17.4	27.1	24.7	20.6	29.4	26.8	24.1	20.1	28.3	
<b>East North Central.....</b>	<b>27 0</b>	<b>28 1</b>	<b>26 0</b>	<b>30 0</b>	<b>32 6</b>	<b>31 5</b>	<b>32 6</b>	<b>35 2</b>	<b>36 6</b>	<b>30 8</b>	<b>32 8</b>	
Ohio.....	28.4	29.5	25.5	31.4	33.8	30.9	32.0	34.5	35.4	26.8	33.3	
Indiana.....	30.0	32.0	29.2	32.3	36.7	35.0	33.3	37.8	39.3	27.7	32.3	
Illinois.....	41.4	42.7	42.0	43.6	46.9	47.1	44.9	48.0	51.5	32.1	31.2	
Michigan.....	15.8	17.7	15.1	17.8	20.5	17.7	19.3	21.7	19.2	23.9	33.3	
Wisconsin.....	13.9	14.4	15.5	15.8	17.0	18.4	17.9	18.6	19.8	40.6	39.1	
<b>West North Central.....</b>	<b>30 9</b>	<b>34 2</b>	<b>37 8</b>	<b>27 0</b>	<b>32 0</b>	<b>35 8</b>	<b>30 6</b>	<b>35 8</b>	<b>41 0</b>	<b>31 1</b>	<b>29 0</b>	
Minnesota.....	21.0	24.7	27.1	23.8	29.0	32.1	26.5	32.3	36.0	35.0	30.0	
Iowa.....	37.8	41.7	44.7	39.0	44.4	47.5	39.6	44.9	50.2	36.0	32.4	
Missouri.....	29.9	28.8	32.6	25.4	27.1	29.3	26.4	27.9	34.2	20.4	22.8	
North Dakota.....	14.3	25.6	34.4	15.3	23.6	30.7	18.0	27.0	32.9	18.0	20.9	
South Dakota.....	24.8	34.9	41.5	23.3	27.7	32.2	30.1	35.4	41.0	27.5	26.9	
Nebraska.....	38.1	42.9	46.4	27.3	33.9	37.3	34.3	41.1	45.0	33.5	34.7	
Kansas.....	36.8	40.4	42.2	30.6	37.0	39.5	33.8	39.7	44.0	24.2	31.8	
<b>South Atlantic.....</b>	<b>45 9</b>	<b>46 8</b>	<b>44 5</b>	<b>30 1</b>	<b>32 3</b>	<b>30 2</b>	<b>38 0</b>	<b>39 2</b>	<b>45 7</b>	( <sup>1</sup> )	( <sup>2</sup> )	
Delaware.....	41.9	39.3	35.8	52.1	49.9	46.5	52.4	51.2	49.1	( <sup>1</sup> )	( <sup>2</sup> )	
Maryland.....	29.5	28.9	26.4	38.5	36.7	35.6	40.0	38.5	38.9	( <sup>1</sup> )	( <sup>2</sup> )	
District of Columbia.....	38.7	41.7	28.1	35.9	35.1	21.2	34.0	33.5	19.6	( <sup>1</sup> )	( <sup>2</sup> )	
Virginia.....	26.5	25.6	25.2	21.1	21.4	19.7	21.1	21.2	24.6	( <sup>1</sup> )	( <sup>2</sup> )	
West Virginia.....	20.5	16.2	16.3	15.5	14.6	14.3	14.2	13.6	15.1	( <sup>1</sup> )	( <sup>2</sup> )	
North Carolina.....	42.3	43.5	45.2	27.6	30.9	31.3	35.3	38.1	46.3	( <sup>1</sup> )	( <sup>2</sup> )	
South Carolina.....	63.0	64.5	65.1	36.4	42.5	41.0	51.7	55.7	60.0	( <sup>1</sup> )	( <sup>2</sup> )	
Georgia.....	65.6	66.6	63.8	42.0	46.0	42.2	57.9	58.4	59.3	( <sup>1</sup> )	( <sup>2</sup> )	
Florida.....	26.7	25.3	21.3	13.1	13.0	11.0	24.5	22.8	23.2	( <sup>1</sup> )	( <sup>2</sup> )	
<b>East South Central.....</b>	<b>50 7</b>	<b>49 7</b>	<b>50 3</b>	<b>28 0</b>	<b>29 6</b>	<b>29 2</b>	<b>36 4</b>	<b>36 0</b>	<b>49 2</b>	( <sup>1</sup> )	( <sup>2</sup> )	
Kentucky.....	33.9	33.4	32.0	19.9	21.1	19.8	21.5	22.3	30.6	( <sup>1</sup> )	( <sup>2</sup> )	
Tennessee.....	41.1	41.1	41.0	25.1	28.2	26.5	30.4	31.9	40.9	( <sup>1</sup> )	( <sup>2</sup> )	
Alabama.....	60.2	57.9	60.7	34.2	35.8	38.3	51.1	47.7	59.6	( <sup>1</sup> )	( <sup>2</sup> )	
Mississippi.....	66.1	66.1	68.3	33.7	34.5	34.4	51.3	48.8	63.0	( <sup>1</sup> )	( <sup>2</sup> )	
<b>West South Central.....</b>	<b>52 8</b>	<b>52 9</b>	<b>59 2</b>	<b>26 7</b>	<b>30 1</b>	<b>33 5</b>	<b>44 5</b>	<b>45 3</b>	<b>55 5</b>	( <sup>1</sup> )	( <sup>2</sup> )	
Arkansas.....	50.0	51.3	56.7	27.0	30.3	33.8	39.0	40.5	50.9	( <sup>1</sup> )	( <sup>2</sup> )	
Louisiana.....	55.3	57.1	60.1	25.7	28.6	29.7	37.8	40.6	52.3	( <sup>1</sup> )	( <sup>2</sup> )	
Oklahoma.....	54.8	51.0	58.6	43.1	39.3	45.1	45.9	44.4	52.2	( <sup>1</sup> )	( <sup>2</sup> )	
Texas.....	52.6	53.3	60.4	22.5	27.6	30.5	46.6	48.1	58.7	( <sup>1</sup> )	( <sup>2</sup> )	
<b>Mountain.....</b>	<b>10 7</b>	<b>15 4</b>	<b>22 2</b>	<b>10 5</b>	<b>11 5</b>	<b>14 5</b>	<b>14 4</b>	<b>16 5</b>	<b>25 3</b>	<b>11 3</b>	<b>15 9</b>	
Montana.....	8.9	11.3	21.9	10.9	9.3	16.7	10.6	12.7	22.4	10.8	12.4	
Idaho.....	10.3	15.9	24.4	10.7	14.2	20.4	13.8	17.4	26.1	12.6	18.2	
Wyoming.....	8.2	12.5	17.9	6.2	8.3	8.9	10.0	13.8	18.1	10.9	12.7	
Colorado.....	18.2	23.0	30.9	16.7	17.4	22.7	25.2	24.1	33.9	11.1	14.9	
New Mexico.....	5.5	12.2	17.1	8.7	11.0	11.9	6.4	14.4	23.2	7.2	14.8	
Arizona.....	9.3	18.1	21.5	8.6	10.2	8.8	17.1	21.3	26.0	5.8	12.1	
Utah.....	7.9	10.9	11.1	5.7	7.4	6.9	7.3	10.4	11.7	20.0	36.4	
Nevada.....	12.4	9.4	7.9	5.8	6.0	4.6	7.4	9.0	6.2	14.6	18.8	
<b>Pacific.....</b>	<b>17 2</b>	<b>20 1</b>	<b>15 6</b>	<b>19 8</b>	<b>22 8</b>	<b>19 7</b>	<b>25 6</b>	<b>29 7</b>	<b>27 1</b>	<b>10 8</b>	<b>20 9</b>	
Washington.....	13.7	18.7	16.3	17.7	26.0	25.4	22.8	32.9	32.5	11.3	27.1	
Oregon.....	15.1	18.8	16.8	16.1	19.8	16.8	23.4	26.1	25.7	16.3	27.8	
California.....	20.6	21.4	14.7	22.2	22.8	18.6	28.1	29.2	24.8	7.9	13.8	

<sup>1</sup> For Northern and Western States only

<sup>2</sup> Not available.

Source: Bureau of the Census, Department of Commerce.



**No. 582.—NUMBER OF FARMS IN THE SOUTH: BY COLOR AND TENURE OF OPERATOR, 1925**

	Total	Full owners	Part owners	Man-agers	Tenants			
					Total	Cash	Croppers	Other
<b>The South:</b>								
White.....	2,299,963	1,173,778	150,875	10,259	965,051	103,854	278,736	582,461
Colored.....	831,455	159,651	34,889	667	636,248	78,760	344,322	213,166
<b>South Atlantic:</b>								
White.....	782,003	471,040	41,095	5,720	264,148	36,230	90,643	137,275
Colored.....	326,058	78,941	18,228	417	228,472	25,841	119,767	82,864
Delaware—								
White.....	9,426	5,985	168	64	3,209	402	80	2,727
Colored.....	831	334	28	10	459	39	61	359
Maryland—								
White.....	42,280	30,060	972	831	10,417	1,608	852	7,957
Colored.....	6,721	3,711	395	105	2,510	253	613	1,644
District of Columbia—								
White.....	130	69	7	18	36	33	-----	3
Colored.....	9	5	-----	1	3	2	-----	1
Virginia—								
White.....	143,576	101,602	8,842	1,162	31,970	4,607	8,672	18,691
Colored.....	50,147	28,515	4,628	76	16,928	1,643	6,991	8,294
West Virginia—								
White.....	89,666	69,699	4,709	657	14,601	6,056	1,209	7,336
Colored.....	714	504	31	5	174	77	17	80
North Carolina—								
White.....	202,516	117,285	15,439	403	69,389	4,888	21,940	42,561
Colored.....	80,966	15,325	6,766	20	58,865	2,632	30,479	25,754
South Carolina—								
White.....	82,186	37,925	3,676	334	40,251	5,012	13,993	21,246
Colored.....	90,581	14,476	3,892	34	72,179	11,389	32,368	28,422
Georgia—								
White.....	165,018	71,076	5,857	1,283	86,802	11,296	41,142	34,364
Colored.....	84,077	10,632	1,715	124	72,206	7,722	47,613	16,871
Florida—								
White.....	47,205	37,339	1,425	968	7,473	2,328	2,755	2,390
Colored.....	12,012	6,039	783	42	5,148	2,084	1,625	1,439
<b>East South Central:</b>								
White.....	725,225	398,213	51,403	1,607	274,002	34,614	90,230	149,158
Colored.....	280,827	38,928	9,281	124	232,494	44,231	128,147	60,116
Kentucky—								
White.....	247,807	151,195	19,283	265	77,054	7,022	21,963	48,069
Colored.....	10,717	3,818	1,136	16	5,747	146	3,851	1,750
Tennessee—								
White.....	218,022	121,219	18,191	306	78,306	7,784	25,725	44,797
Colored.....	34,647	7,086	2,131	18	25,412	2,658	14,848	7,906
Alabama—								
White.....	152,310	68,329	9,895	390	73,696	13,900	25,127	34,669
Colored.....	85,321	10,953	3,771	58	70,539	28,403	25,296	16,840
Mississippi—								
White.....	107,086	57,470	4,024	646	44,946	5,908	17,415	21,623
Colored.....	150,142	17,071	2,243	32	130,796	13,024	84,152	33,620
<b>West South Central:</b>								
White.....	792,735	304,525	58,377	2,932	426,901	33,010	97,863	296,028
Colored.....	224,570	41,782	7,380	126	175,282	8,688	96,408	70,186
Arkansas—								
White.....	158,708	72,045	12,368	577	73,718	6,386	20,429	46,903
Colored.....	63,283	9,495	1,568	39	52,181	2,692	35,322	14,167
Louisiana—								
White.....	72,937	39,419	3,397	473	29,648	4,428	9,073	16,147
Colored.....	59,513	8,494	1,076	30	49,913	4,314	25,001	20,598
Oklahoma—								
White.....	177,170	53,152	19,386	482	104,150	11,958	10,209	81,983
Colored.....	20,048	7,612	1,076	12	11,348	603	2,920	7,825
Texas—								
White.....	383,920	139,909	23,226	1,400	219,385	10,238	58,152	150,995
Colored.....	81,726	16,181	3,660	45	61,840	1,079	33,165	27,596

Source: Bureau of the Census, Department of Commerce.

**No. 583.—NUMBER AND ACREAGE OF FARMS: BY COLOR AND NATIVITY OF OPERATOR AND BY STATES**

NOTE.—For comparable statistics for 1925 for the South (all that are available) see Table 582. For total number of farms and acreage of all land in farms see Table 572

Division and State	Number of farms operated by—						All land (thousands of acres) in farms operated by—		
	Native white farmers		Foreign-born white farmers		Colored farmers		Native white farmers, 1920	Foreign-born white farmers, 1920	Colored farmers, 1920
	1910	1920	1910	1920	1910	1920			
<b>United States</b> .....	4, 771, 063	4, 917, 386	669, 556	581, 068	920, 883	949, 889	799, 767	111, 172	44, 946
<b>New England</b> .....	161, 009	138, 028	27, 451	28, 265	342	271	14, 577	2, 393	21
Maine.....	55, 014	43, 830	4, 973	4, 384	29	13	4, 960	465	1
New Hampshire.....	24, 347	17, 890	2, 091	2, 619	15	14	2, 336	266	1
Vermont.....	28, 968	25, 280	3, 721	3, 767	20	28	3, 674	557	4
Massachusetts.....	28, 431	22, 950	8, 362	8, 930	124	121	1, 969	520	6
Rhode Island.....	4, 408	3, 123	843	940	41	20	277	54	1
Connecticut.....	19, 841	14, 955	6, 861	7, 625	113	75	1, 361	531	7
<b>Middle Atlantic</b> .....	419, 342	376, 701	47, 076	46, 910	1, 961	1, 536	39, 926	3, 551	96
New York.....	187, 629	166, 860	27, 029	25, 776	939	550	18, 344	2, 246	43
New Jersey.....	26, 796	22, 555	6, 215	6, 612	476	535	1, 929	328	26
Pennsylvania.....	204, 917	187, 277	13, 832	14, 522	546	451	16, 653	977	27
<b>East North Central</b> .....	929, 619	935, 492	188, 153	144, 775	5, 717	4, 477	103, 222	14, 235	278
Ohio.....	252, 645	241, 075	17, 450	14, 004	1, 950	1, 616	22, 463	963	100
Indiana.....	204, 951	198, 156	9, 729	6, 398	805	572	20, 405	621	37
Illinois.....	217, 053	214, 177	33, 394	22, 111	1, 425	893	29, 140	2, 777	58
Michigan.....	147, 790	147, 450	58, 224	48, 264	946	733	14, 710	4, 274	49
Wisconsin.....	107, 180	134, 634	69, 356	53, 998	591	663	16, 504	5, 610	34
<b>West North Central</b> .....	830, 642	883, 809	269, 442	206, 223	9, 864	6, 919	201, 589	53, 872	1, 512
Minnesota.....	74, 710	110, 966	81, 134	67, 305	293	207	19, 362	10, 839	20
Iowa.....	167, 856	181, 109	48, 987	32, 221	201	109	25, 405	5, 061	9
Missouri.....	259, 111	261, 835	14, 467	8, 343	3, 666	2, 826	33, 472	1, 112	190
North Dakota.....	35, 750	40, 899	37, 867	36, 248	743	543	19, 394	16, 634	186
South Dakota.....	49, 360	52, 700	26, 476	20, 325	2, 808	1, 612	26, 373	8, 413	850
Nebraska.....	93, 509	99, 441	35, 707	24, 592	462	384	35, 198	6, 961	67
Kansas.....	150, 346	146, 859	25, 804	17, 189	1, 691	1, 238	40, 384	4, 852	89
<b>South Atlantic</b> .....	748, 878	767, 771	7, 141	7, 373	355, 862	383, 832	78, 825	725	18, 225
Delaware.....	9, 504	8, 905	410	363	922	872	861	28	55
Maryland.....	40, 669	40, 130	1, 882	1, 569	6, 372	6, 209	4, 278	129	352
District of Columbia.....	168	153	37	31	12	20	5	(1)	(1)
Virginia.....	134, 155	136, 874	1, 749	1, 582	48, 114	47, 786	16, 085	213	2, 263
West Virginia.....	95, 138	86, 033	839	752	708	504	9, 480	62	28
North Carolina.....	187, 657	193, 081	412	392	65, 656	76, 290	16, 538	46	3, 437
South Carolina.....	79, 424	82, 642	212	141	96, 798	109, 010	8, 010	37	4, 380
Georgia.....	168, 083	180, 217	385	328	122, 559	130, 187	18, 297	73	7, 072
Florida.....	34, 080	38, 836	1, 215	2, 215	14, 721	12, 954	5, 272	137	638
<b>East South Central</b> .....	712, 443	740, 862	4, 819	3, 506	325, 218	307, 232	66, 455	329	12, 114
Kentucky.....	245, 499	256, 886	1, 956	1, 112	11, 730	12, 623	21, 088	98	427
Tennessee.....	206, 821	213, 832	883	760	38, 308	38, 182	17, 920	67	1, 524
Alabama.....	151, 214	159, 865	1, 244	1, 031	110, 443	95, 203	15, 143	85	4, 348
Mississippi.....	108, 909	110, 279	736	603	164, 737	161, 219	12, 304	79	5, 815
<b>West South Central</b> .....	692, 624	724, 301	41, 501	39, 937	209, 061	231, 850	155, 100	7, 369	10, 980
Arkansas.....	148, 627	158, 273	2, 458	2, 049	63, 593	72, 282	14, 606	226	2, 625
Louisiana.....	63, 236	71, 081	2, 431	2, 323	54, 879	62, 050	7, 664	173	2, 183
Oklahoma.....	161, 773	167, 472	7, 748	5, 791	20, 671	18, 725	28, 870	1, 369	1, 713
Texas.....	318, 988	327, 475	28, 864	29, 774	69, 918	78, 784	103, 960	5, 602	4, 459
<b>Mountain</b> .....	143, 991	197, 678	31, 427	40, 984	8, 028	5, 447	99, 284	17, 056	997
Montana.....	18, 165	41, 051	6, 853	15, 563	1, 196	1, 063	25, 960	8, 459	652
Idaho.....	24, 694	35, 284	5, 708	6, 314	405	508	7, 167	1, 161	43
Wyoming.....	9, 019	13, 306	1, 903	2, 273	65	169	10, 094	1, 692	23
Colorado.....	37, 198	49, 846	8, 398	9, 535	574	553	21, 494	2, 881	87
New Mexico.....	32, 088	26, 593	1, 440	1, 376	2, 148	1, 875	22, 882	1, 463	64
Arizona.....	5, 218	8, 262	806	1, 067	3, 203	646	5, 311	431	60
Utah.....	15, 948	21, 276	5, 452	3, 972	276	414	4, 532	468	51
Nevada.....	1, 661	2, 060	867	884	161	219	1, 844	501	12
<b>Pacific</b> .....	132, 515	162, 744	52, 546	63, 095	4, 830	8, 325	43, 789	11, 442	722
Washington.....	37, 770	45, 265	17, 297	19, 757	1, 125	1, 266	10, 237	2, 906	101
Oregon.....	35, 819	40, 484	9, 056	9, 149	627	573	11, 432	2, 010	100
California.....	58, 926	76, 995	26, 193	34, 189	3, 078	6, 486	22, 119	6, 725	521

1 Less than 500.

Source: Bureau of the Census, Department of Commerce

**No. 584.—NUMBER AND ACREAGE OF FARMS: BY COLOR, NATIVITY, AND TENURE OF OPERATOR, UNITED STATES AND CERTAIN REGIONS AND DIVISIONS**

NOTE.—For total number of farms (all tenures combined) see Table 572, for number of farms, by color and nativity of farmer (all tenures combined), see Table 583. The "North" includes New England, Middle Atlantic, East and West North Central divisions, the "South," the three subdivisions listed below it

Division and color and nativity	Number of farms operated by—				All land (thousands of acres) in farms operated by—			Improved land (thousands of acres) in farms operated by—		
	Owners and managers		Tenants		All farms, 1920	Owners and managers, 1920	Tenants, 1920	All farms, 1920	Owners and managers, 1920	Tenants, 1920
	1910	1920	1910	1920						
United States.....	4, 006, 826	3, 993, 539	2, 354, 676	2, 454, 804	955, 884	690, 904	264, 980	503, 073	327, 318	175, 755
Native white.....	3, 212, 671	3, 286, 556	1, 558, 302	1, 630, 830	799, 767	583, 464	216, 304	411, 266	271, 155	140, 111
Foreign-born white.....	551, 390	471, 535	118, 166	103, 533	111, 172	90, 261	20, 911	62, 508	47, 883	14, 625
Colored.....	242, 765	235, 448	678, 118	714, 441	44, 945	17, 180	27, 765	29, 298	8, 280	21, 019
The North.....	2, 125, 117	1, 984, 188	765, 501	779, 218	432, 272	300, 661	131, 611	291, 966	192, 325	99, 641
Native white.....	1, 669, 820	1, 622, 968	670, 792	701, 062	356, 314	239, 750	116, 564	242, 571	154, 382	88, 189
Foreign-born white.....	442, 094	351, 804	90, 028	74, 369	74, 051	59, 371	14, 681	48, 610	37, 402	11, 208
Colored.....	13, 203	9, 416	4, 681	3, 787	1, 906	1, 540	366	785	541	244
The South.....	1, 560, 795	1, 615, 543	1, 536, 752	1, 591, 121	350, 122	243, 043	107, 079	157, 080	93, 040	64, 040
Native white.....	1, 304, 650	1, 364, 289	849, 295	868, 645	300, 381	222, 005	78, 376	125, 682	83, 210	42, 472
Foreign-born white.....	36, 478	31, 895	16, 938	18, 921	8, 423	6, 594	1, 829	3, 654	2, 433	1, 221
Colored.....	219, 667	219, 359	670, 474	703, 555	41, 318	14, 444	26, 874	27, 744	7, 396	20, 347
South Atlantic.....	601, 452	616, 888	510, 429	542, 088	97, 775	66, 200	31, 575	48, 510	29, 499	19, 011
Native white.....	492, 466	506, 722	256, 412	261, 049	78, 825	59, 891	18, 934	36, 743	26, 404	10, 340
Foreign-born white.....	6, 305	6, 546	836	827	725	645	80	313	280	33
Colored.....	102, 681	103, 620	253, 181	280, 212	18, 225	5, 664	12, 561	11, 454	2, 816	8, 638
East South Central....	513, 742	529, 314	528, 738	522, 286	78, 897	55, 550	23, 347	44, 380	28, 415	15, 965
Native white.....	450, 793	470, 492	261, 650	270, 370	66, 455	51, 238	15, 217	35, 661	26, 234	9, 427
Foreign-born white.....	3, 963	2, 875	856	631	329	293	36	177	153	25
Colored.....	58, 986	55, 947	266, 232	251, 285	12, 114	4, 019	8, 095	8, 542	2, 028	6, 513
West South Central....	445, 601	469, 341	497, 585	526, 747	173, 449	121, 292	52, 157	64, 190	35, 125	29, 064
Native white.....	361, 391	387, 075	331, 233	337, 226	155, 100	110, 875	44, 224	53, 278	30, 572	22, 706
Foreign-born white.....	26, 210	22, 474	15, 291	17, 463	7, 369	5, 658	1, 714	3, 164	2, 001	1, 163
Colored.....	58, 000	59, 792	151, 061	172, 058	10, 980	4, 761	6, 219	7, 748	2, 552	5, 196
Mountain.....	163, 756	206, 631	19, 690	37, 478	117, 337	103, 862	13, 475	30, 106	25, 129	4, 977
Native white.....	127, 912	166, 840	16, 079	30, 838	99, 284	87, 492	11, 792	24, 614	20, 412	4, 202
Foreign-born white.....	28, 147	35, 402	3, 280	5, 582	17, 056	15, 488	1, 568	5, 196	4, 489	707
Colored.....	7, 697	4, 389	331	1, 058	997	882	116	295	228	67
Pacific.....	157, 158	187, 177	32, 733	46, 987	56, 153	43, 338	12, 815	23, 922	16, 825	7, 097
Native white.....	110, 289	132, 459	22, 226	30, 285	43, 789	34, 216	9, 572	18, 399	13, 552	5, 247
Foreign-born white.....	44, 671	52, 434	7, 875	10, 661	11, 642	8, 808	2, 834	5, 048	3, 159	1, 489
Colored.....	2, 198	2, 284	2, 632	6, 041	722	313	409	474	114	360

Source: Bureau of the Census, Department of Commerce.

## NO. 585.—VALUE OF FARM PROPERTY: BY SIZE AND TENURE OF FARM, 1925

Division	Total, all farms	Farms of specified size—						
		Under 20 acres	20 to 49 acres	50 to 99 acres	100 to 174 acres	175 to 499 acres	500 to 999 acres	1,000 acres and over
Value of land and buildings (millions of dollars)								
United States.....	49,468	2,484	4,263	7,404	13,038	15,838	3,336	3,105
New England.....	906	121	137	184	213	204	31	14
Middle Atlantic.....	2,800	292	357	723	844	517	51	15
East North Central.....	11,024	356	702	2,231	3,816	3,602	265	52
West North Central.....	16,531	239	365	1,242	4,757	7,728	1,635	665
South Atlantic.....	4,099	381	752	865	832	861	224	184
East South Central.....	2,481	221	487	536	525	509	124	79
West South Central.....	4,959	160	539	839	1,217	1,134	347	724
Mountain.....	2,173	84	133	206	305	521	340	586
Pacific.....	4,495	631	791	576	529	762	420	786
Value of buildings alone (millions of dollars)								
United States.....	11,747	1,013	1,283	2,264	3,313	3,079	505	290
New England.....	492	80	81	102	110	99	14	5
Middle Atlantic.....	1,467	181	192	380	435	253	20	5
East North Central.....	3,055	181	271	772	1,052	727	44	7
West North Central.....	3,228	117	120	337	1,019	1,331	228	75
South Atlantic.....	1,118	135	212	247	236	220	46	24
East South Central.....	653	78	133	150	139	117	24	12
West South Central.....	782	50	112	157	202	168	44	50
Mountain.....	334	32	30	37	51	80	45	58
Pacific.....	617	159	131	82	69	84	39	54
Average value of land and buildings per farm (dollars)								
United States.....	7,764	2,570	2,939	5,210	9,422	16,806	23,192	49,025
New England.....	5,678	3,987	4,688	4,802	5,799	8,967	20,348	37,734
Middle Atlantic.....	6,684	3,923	5,000	6,149	7,780	11,439	35,962	53,488
East North Central.....	10,483	3,669	4,177	6,985	12,247	23,936	59,235	80,508
West North Central.....	14,875	3,980	4,063	7,282	13,544	21,259	26,086	38,410
South Atlantic.....	3,699	1,629	2,122	3,387	5,176	9,535	22,183	55,232
East South Central.....	2,466	983	1,408	2,410	3,797	7,647	20,448	40,386
West South Central.....	4,875	1,133	1,809	3,569	5,910	10,064	19,194	58,672
Mountain.....	9,310	3,138	4,940	7,477	7,559	8,389	10,651	32,465
Pacific.....	16,926	7,460	11,857	16,701	17,394	26,438	36,567	86,831
Division	Farms operated by—							
	Full owners	Part owners	Cash tenants	Other tenants	Full owners	Part owners	Cash tenants	Other tenants
Value of land and buildings (millions of dollars)					Value of implements and machinery (millions of dollars)			
United States.....	24,209	6,808	3,370	13,480	1,482 0	385.3	159 1	606 6
New England.....	748	40	29	22	69 9	4 4	2 1	1.9
Middle Atlantic.....	2,066	145	175	357	247 9	19.8	15 0	42.9
East North Central.....	5,450	1,347	734	3,298	327 7	68.9	33 1	130.4
West North Central.....	6,498	3,210	1,534	5,116	840 1	177.7	69 3	223 3
South Atlantic.....	2,534	190	162	1,018	131 2	11.1	6 6	40.6
East South Central.....	1,457	157	141	685	77.4	9.2	7 1	28 0
West South Central.....	1,963	561	221	2,049	112 5	30.8	9 5	95.1
Mountain.....	980	581	91	405	64.3	34.2	4 8	21 9
Pacific.....	2,572	576	297	531	111 1	29.4	11 7	22.4
Average value of land and buildings per farm (dollars)					Average value of implements and machinery per farm (dollars)			
United States.....	7,306	12,270	8,565	6,515	447	694	404	293
New England.....	5,210	8,806	5,167	6,570	487	950	375	566
Middle Atlantic.....	6,041	8,999	7,907	8,089	746	1,229	682	972
East North Central.....	8,163	12,931	12,381	15,350	491	662	568	607
West North Central.....	12,849	17,823	16,193	15,732	673	987	732	687
South Atlantic.....	4,607	3,209	2,613	2,364	239	186	106	94
East South Central.....	3,334	2,592	1,783	1,601	177	151	91	66
West South Central.....	5,668	8,531	5,305	3,656	325	468	227	170
Mountain.....	7,165	13,709	8,309	9,911	470	806	439	537
Pacific.....	13,246	26,486	15,401	23,986	572	1,352	605	1,012

## No. 586.—MORTGAGE STATUS OF FARMS OWNED BY OPERATOR

Item	1890 <sup>1</sup>	1900 <sup>1</sup>	1910	1920	1925
<b>FARMS OWNED WHOLLY OR IN PART BY THE OPERATOR</b>					
Total number.....	3, 142, 746	3, 638, 403	3, 948, 722	3, 925, 090	3, 868, 332
Reported as free from mortgage.....	2, 228, 806	2, 419, 180	2, 588, 596	2, 074, 325	( <sup>2</sup> )
Reported as mortgaged.....	874, 215	1, 093, 164	1, 312, 084	1, 461, 306	1, 895, 026
Unknown (no report).....	39, 725	126, 059	48, 092	389, 459	( <sup>2</sup> )
Per cent of total—					
Free from mortgage.....	70 9	66 5	65 6	52 8	( <sup>3</sup> )
Reporting mortgage debt.....	27 8	30 0	33 2	37 2	36.1
Unknown (no report).....	1 3	3 5	1 2	9 9	( <sup>2</sup> )
<b>FARMS OWNED WHOLLY BY THE OPERATOR</b>					
Total number.....	( <sup>2</sup> )	3, 201, 947	3, 354, 897	3, 366, 510	3, 313, 490
Number reporting amount of mortgage debt.....	<sup>3</sup> 886, 957	( <sup>2</sup> )	1, 006, 511	1, 193, 047	1, 128, 207
Per cent of total.....	( <sup>2</sup> )	( <sup>2</sup> )	30 0	35 4	34 0
Value of land and buildings.....1,000 dollars.....	( <sup>2</sup> )	9, 129, 328	17, 310, 639	30, 710, 721	24, 208, 740
Ratio of mortgage debt to value.....per cent.....	( <sup>2</sup> )	( <sup>2</sup> )	10 0	13 0	18 7
Reporting mortgage debt:					
Total number.....	<sup>3</sup> 886, 957	( <sup>2</sup> )	1, 006, 511	1, 193, 047	1, 128, 207
Value of land and buildings.....1,000 dollars.....	<sup>3</sup> 3, 054, 823	( <sup>2</sup> )	6, 330, 237	13, 775, 500	10, 790, 244
Amount of mortgage debt.....do.....	<sup>3</sup> 1, 085, 996	( <sup>2</sup> )	1, 726, 173	4, 008, 767	4, 517, 259
Ratio of mortgage debt to value.....per cent.....	<sup>3</sup> 35 5	( <sup>2</sup> )	27. 3	29. 1	41. 9
Average per mortgaged farm—					
Value of land and buildings.....dollars.....	<sup>3</sup> 3, 444	( <sup>2</sup> )	6, 289	11, 548	9, 564
Amount of mortgage debt.....do.....	<sup>3</sup> 1, 224	( <sup>2</sup> )	1, 715	3, 356	4, 004
Equity owned.....do.....	<sup>3</sup> 2, 220	( <sup>2</sup> )	4, 574	8, 191	5, 560

<sup>1</sup> Farm homes occupied by their owners<sup>2</sup> Not available<sup>3</sup> Estimated totals for owned farm homes mortgaged, estimates being made for farms with defective reports.

Source: Bureau of the Census, Department of Commerce

## No. 587.—FARMS OWNED WHOLLY BY OPERATOR AND REPORTING MORTGAGE DEBT: NUMBER, VALUE, AND MORTGAGE DEBT, BY SIZE OF FARM, 1925

Item	United States	Item	United States	Item	United States
<b>Number of farms.....</b>	<b>1, 128, 207</b>	<b>Value of land and buildings 1,000 dollars—Contd.</b>		<b>Ratio of debt to value per cent—Contd.</b>	
Under 3 acres.....	3, 060	175 to 259 acres.....	1, 474, 677	500 to 999 acres.....	39. 7
3 to 9 acres.....	53, 121	260 to 499 acres.....	1, 616, 742	1,000 acres and over.....	36. 9
10 to 19 acres.....	59, 725	500 to 999 acres.....	641, 832	<b>Value per acre</b>	
20 to 49 acres.....	187, 911	1,000 acres and over.....	512, 448	.....dollars.....	<b>62. 67</b>
50 to 99 acres.....	297, 024	<b>Amount of mortgage debt, 1,000 dollars.....</b>	<b>4, 517, 259</b>	Under 3 acres.....	4, 061 14
100 to 174 acres.....	299, 335	Under 3 acres.....	6, 812	3 to 9 acres.....	816 37
175 to 259 acres.....	99, 118	3 to 9 acres.....	101, 391	10 to 19 acres.....	468 10
260 to 499 acres.....	90, 162	10 to 19 acres.....	129, 752	20 to 49 acres.....	152 45
500 to 999 acres.....	27, 549	20 to 49 acres.....	380, 395	50 to 99 acres.....	86 25
1,000 acres and over.....	11, 202	50 to 99 acres.....	798, 502	100 to 174 acres.....	74 41
<b>Acres in farms.....</b>	<b>172,182,218</b>	100 to 174 acres.....	1, 327, 265	175 to 259 acres.....	70 24
Under 3 acres.....	4, 879	175 to 259 acres.....	642, 644	260 to 499 acres.....	52 05
3 to 9 acres.....	300, 643	260 to 499 acres.....	686, 290	500 to 999 acres.....	34 42
10 to 19 acres.....	779, 216	500 to 999 acres.....	254, 994	1,000 acres and over.....	16 20
20 to 49 acres.....	6, 522, 903	1,000 acres and over.....	189, 215	<b>Mortgage debt per acre.....dollars.....</b>	<b>26 24</b>
50 to 99 acres.....	21, 854, 189	<b>Ratio of debt to value per cent.....</b>	<b>41 9</b>	Under 3 acres.....	1, 396 10
100 to 174 acres.....	40, 333, 565	Under 3 acres.....	34 4	3 to 9 acres.....	337 25
175 to 259 acres.....	20, 993, 562	3 to 9 acres.....	36 8	10 to 19 acres.....	166 52
260 to 499 acres.....	31, 058, 620	10 to 19 acres.....	35 6	20 to 49 acres.....	58 32
500 to 999 acres.....	18, 647, 991	20 to 49 acres.....	38 3	50 to 99 acres.....	36 54
1,000 acres and over.....	31, 636, 950	50 to 99 acres.....	42 4	100 to 174 acres.....	32 87
<b>Value of land and buildings.....1,000 dollars.....</b>	<b>10, 790, 244</b>	100 to 174 acres.....	42 4	175 to 259 acres.....	30 61
Under 3 acres.....	19, 814	175 to 259 acres.....	43 6	260 to 499 acres.....	22 10
3 to 9 acres.....	275, 499	260 to 499 acres.....	42 4	500 to 999 acres.....	13 67
10 to 19 acres.....	364, 761	500 to 999 acres.....	43 6	1,000 acres and over.....	5. 98
20 to 49 acres.....	994, 394	1,000 acres and over.....	42 4		
50 to 99 acres.....	1, 884, 952				
100 to 174 acres.....	3, 005, 134				

Source: Bureau of the Census, Department of Commerce.

# No. 588.—MORTGAGE STATUS OF FARMS OWNED WHOLLY OR IN PART BY THE OPERATOR: BY STATES

NOTE.—In 1910 and 1920 the number of all owned farms includes farms with mortgage status not reported, which constituted only 1 2 per cent in 1910 and 9 9 per cent in 1920. The data for 1925 do not include farms with mortgage status not reported, therefore the percentage for 1925 is not available

Division and State	All owned farms (number)			Free from mortgage (number)		Mortgaged (number)		
	1910	1920	1925	1910	1920	1910	1920	1925
<b>United States.....</b>	<b>3,948,722</b>	<b>3,925,090</b>	<b>3,668,332</b>	<b>2,568,596</b>	<b>2,074,325</b>	<b>1,312,034</b>	<b>1,461,306</b>	<b>1,395,026</b>
<b>New England.....</b>	<b>168,408</b>	<b>140,160</b>	<b>148,159</b>	<b>108,938</b>	<b>80,412</b>	<b>58,474</b>	<b>53,138</b>	<b>49,864</b>
Maine.....	56,454	45,437	47,984	41,309	30,665	14,948	13,023	11,925
New Hampshire.....	24,493	18,604	19,895	18,119	11,992	6,234	5,389	4,716
Vermont.....	28,065	25,121	24,889	14,851	12,132	13,140	12,225	10,850
Massachusetts.....	32,075	28,087	30,870	18,768	14,055	13,014	12,632	12,248
Rhode Island.....	4,087	3,245	3,263	2,811	1,971	1,180	949	946
Connecticut.....	23,234	19,666	21,258	13,080	9,597	9,958	8,920	9,179
<b>Middle Atlantic.....</b>	<b>355,036</b>	<b>327,104</b>	<b>348,179</b>	<b>217,257</b>	<b>179,326</b>	<b>134,803</b>	<b>125,216</b>	<b>116,810</b>
New York.....	166,674	151,717	159,949	93,118	75,522	72,311	66,633	61,905
New Jersey.....	24,133	21,889	24,535	11,983	10,000	11,793	10,085	10,118
Pennsylvania.....	164,229	153,498	163,695	112,156	93,804	50,699	48,498	38,787
<b>East North Central.....</b>	<b>809,044</b>	<b>766,786</b>	<b>771,876</b>	<b>473,822</b>	<b>382,771</b>	<b>327,463</b>	<b>326,313</b>	<b>305,046</b>
Ohio.....	192,104	177,986	181,347	135,616	110,004	54,997	50,784	47,800
Indiana.....	148,501	137,210	137,429	89,847	73,233	56,914	51,474	49,960
Illinois.....	145,107	132,574	129,074	86,713	68,892	55,792	51,039	45,814
Michigan.....	172,310	159,406	161,974	88,705	72,869	62,631	58,758	50,853
Wisconsin.....	151,022	159,610	162,052	72,941	57,773	77,129	94,268	90,619
<b>West North Central.....</b>	<b>758,946</b>	<b>711,156</b>	<b>685,797</b>	<b>404,555</b>	<b>278,906</b>	<b>346,182</b>	<b>368,158</b>	<b>350,991</b>
Minnesota.....	122,104	132,744	136,382	65,038	54,086	56,145	69,545	66,319
Iowa.....	133,003	121,888	116,444	69,234	45,807	69,045	66,096	64,781
Missouri.....	192,285	185,030	174,383	102,514	82,090	88,486	85,538	76,970
North Dakota.....	63,212	56,917	49,513	30,651	12,833	31,727	40,462	31,602
South Dakota.....	57,984	47,815	46,160	35,101	16,037	21,691	27,262	28,813
Nebraska.....	79,250	69,672	67,766	47,435	27,065	30,839	35,191	38,279
Kansas.....	111,108	97,090	95,149	60,582	40,979	49,249	44,064	44,227
<b>South Atlantic.....</b>	<b>593,154</b>	<b>607,089</b>	<b>609,304</b>	<b>474,742</b>	<b>408,804</b>	<b>110,198</b>	<b>118,026</b>	<b>126,838</b>
Delaware.....	6,178	6,010	6,515	3,817	3,504	2,264	2,018	1,748
Maryland.....	33,519	32,805	35,138	21,084	19,292	12,127	11,339	10,513
Dist. of Columbia.....	118	100	81	93	53	21	29	19
Virginia.....	133,664	136,363	143,587	111,474	98,470	21,182	24,331	27,075
West Virginia.....	75,978	72,101	74,943	66,093	52,617	9,525	10,274	9,104
North Carolina.....	145,320	151,376	154,805	117,028	102,950	26,642	24,499	29,918
South Carolina.....	64,350	67,724	59,969	47,535	42,847	15,020	14,299	15,521
Georgia.....	98,628	102,123	88,680	78,004	64,061	18,257	23,135	24,083
Florida.....	35,399	38,487	45,586	29,614	25,010	5,160	8,102	8,857
<b>East South Central.....</b>	<b>510,452</b>	<b>525,808</b>	<b>497,825</b>	<b>388,837</b>	<b>339,312</b>	<b>114,195</b>	<b>124,723</b>	<b>119,931</b>
Kentucky.....	170,332	179,327	175,442	135,505	116,613	33,039	40,615	34,688
Tennessee.....	144,125	148,082	148,627	118,285	105,128	24,006	32,264	30,703
Alabama.....	103,929	107,089	92,948	74,504	64,498	27,457	27,854	27,790
Mississippi.....	92,066	91,310	80,808	60,543	53,073	29,693	23,990	26,750
<b>West South Central.....</b>	<b>440,905</b>	<b>464,328</b>	<b>412,064</b>	<b>299,303</b>	<b>236,932</b>	<b>132,252</b>	<b>162,738</b>	<b>147,212</b>
Arkansas.....	106,649	112,647	95,476	82,321	64,881	22,374	33,990	31,419
Louisiana.....	52,939	57,254	52,386	42,011	36,010	9,834	11,783	14,424
Oklahoma.....	85,404	93,217	81,226	46,889	30,551	36,036	47,025	39,263
Texas.....	195,863	201,210	182,976	128,082	105,490	64,008	69,940	62,106
<b>Mountain.....</b>	<b>160,844</b>	<b>202,515</b>	<b>179,198</b>	<b>125,940</b>	<b>88,731</b>	<b>33,060</b>	<b>97,038</b>	<b>84,939</b>
Montana.....	23,365	50,271	36,281	18,014	16,365	4,820	29,897	19,818
Idaho.....	27,169	34,647	30,195	17,933	11,872	9,010	20,060	16,509
Wyoming.....	9,779	13,463	12,545	7,815	6,816	1,923	5,513	6,088
Colorado.....	36,993	45,291	39,517	26,822	20,965	9,866	21,131	20,997
New Mexico.....	33,398	25,756	26,005	31,382	16,650	1,775	6,257	6,897
Arizona.....	8,203	7,869	8,179	7,038	3,708	1,043	3,380	3,276
Utah.....	19,762	22,579	23,013	15,131	10,756	4,492	9,916	10,190
Nevada.....	2,175	2,699	3,463	1,805	1,599	361	884	1,164
<b>Pacific.....</b>	<b>151,933</b>	<b>180,144</b>	<b>215,830</b>	<b>95,202</b>	<b>79,131</b>	<b>55,407</b>	<b>85,956</b>	<b>99,395</b>
Washington.....	47,505	52,701	60,389	30,979	25,012	16,026	24,004	27,604
Oregon.....	37,796	39,863	45,887	24,855	18,077	12,632	17,843	20,990
California.....	66,632	87,580	109,654	39,368	36,042	26,749	44,109	50,801

Source: Bureau of the Census, Department of Commerce.

# No. 589.—MORTGAGE DEBT OF FARMS OWNED WHOLLY BY THE OPERATOR: By States

NOTE.—This table does not include farms operated by managers or tenants or consisting in part of rented land

Division and State	Farms operated by full owners reporting amount of mortgage debt								
	Number of farms			Value of land and buildings (thousands of dollars)			Amount of debt (thou- sands of dollars)		
	1910	1920	1925	1910	1920	1925	1910	1920	1925
<b>United States.....</b>	<b>1,008,511</b>	<b>1,193,047</b>	<b>1,128,207</b>	<b>6,330,237</b>	<b>13,775,500</b>	<b>10,790,244</b>	<b>1,726,173</b>	<b>4,003,767</b>	<b>4,517,959</b>
<b>New England.....</b>	<b>53,791</b>	<b>49,456</b>	<b>47,817</b>	<b>183,826</b>	<b>271,163</b>	<b>272,769</b>	<b>58,536</b>	<b>91,756</b>	<b>109,361</b>
Maine.....	13,894	12,345	11,632	39,774	58,427	59,644	11,739	18,592	24,619
New Hampshire.....	5,666	4,951	4,591	15,457	20,274	18,264	4,774	6,821	7,209
Vermont.....	12,138	11,504	10,431	36,859	61,071	51,883	12,436	23,576	24,057
Massachusetts.....	12,030	11,663	11,660	49,742	70,745	76,362	16,371	23,412	28,402
Rhode Island.....	1,001	856	869	4,088	4,865	5,185	1,356	1,494	1,971
Connecticut.....	9,062	8,137	8,634	37,906	55,781	61,431	11,859	17,861	23,102
<b>Middle Atlantic.....</b>	<b>118,220</b>	<b>113,441</b>	<b>104,317</b>	<b>516,335</b>	<b>711,868</b>	<b>696,005</b>	<b>178,326</b>	<b>258,397</b>	<b>286,334</b>
New York.....	62,555	59,735	57,245	284,059	388,114	397,889	97,310	145,533	165,622
New Jersey.....	10,666	9,296	9,824	55,507	67,176	81,964	19,477	25,123	31,893
Pennsylvania.....	44,999	44,410	37,248	176,168	256,577	210,152	61,539	87,741	88,818
<b>East N. Central.....</b>	<b>257,884</b>	<b>274,347</b>	<b>255,248</b>	<b>1,605,965</b>	<b>2,959,228</b>	<b>2,290,825</b>	<b>459,887</b>	<b>922,268</b>	<b>1,011,942</b>
Ohio.....	42,785	43,068	41,110	220,750	387,188	307,622	63,788	121,121	134,738
Indiana.....	40,108	40,416	38,734	251,961	439,153	300,320	57,487	105,256	119,621
Illinois.....	36,938	36,663	31,354	454,857	775,395	535,833	115,800	197,212	218,544
Michigan.....	68,655	67,119	60,707	250,874	420,108	351,799	75,997	144,103	149,683
Wisconsin.....	69,398	87,081	83,341	427,522	937,385	795,252	146,815	354,574	389,356
<b>West N. Central.....</b>	<b>236,975</b>	<b>266,261</b>	<b>239,431</b>	<b>2,361,541</b>	<b>5,414,232</b>	<b>3,660,025</b>	<b>608,481</b>	<b>1,437,337</b>	<b>1,642,124</b>
Minnesota.....	41,775	57,585	52,184	295,016	925,963	612,428	77,866	254,475	267,027
Iowa.....	50,452	52,341	49,744	735,265	1,814,260	1,272,036	204,243	489,817	625,629
Missouri.....	64,028	68,784	59,494	389,476	752,008	493,793	112,565	216,463	220,265
North Dakota.....	19,187	22,623	15,597	213,643	380,133	200,549	47,842	108,285	82,411
South Dakota.....	11,313	14,039	13,511	154,749	411,837	234,807	32,771	89,875	100,306
Nebraska.....	19,778	23,986	23,631	286,309	705,861	512,906	62,373	168,508	216,256
Kansas.....	30,442	26,923	25,270	287,082	424,469	333,506	70,820	109,914	130,231
<b>South Atlantic.....</b>	<b>86,522</b>	<b>103,039</b>	<b>113,567</b>	<b>270,317</b>	<b>652,812</b>	<b>670,906</b>	<b>73,597</b>	<b>192,689</b>	<b>249,235</b>
Delaware.....	2,021	1,903	1,723	8,802	11,422	9,874	3,069	4,480	4,326
Maryland.....	10,754	10,407	10,118	44,399	75,082	69,717	15,674	27,481	29,375
Dist. Columbia.....	20	24	16	233	238	222	56	93	77
Virginia.....	17,410	21,155	24,269	62,377	151,585	159,208	15,440	41,726	55,890
West Virginia.....	7,878	9,031	8,409	21,549	43,989	38,533	5,593	11,206	13,828
North Carolina.....	19,252	20,149	24,983	42,952	103,282	119,996	9,958	31,968	43,621
South Carolina.....	11,189	12,265	13,669	39,594	92,053	80,251	10,109	25,153	32,564
Georgia.....	13,839	20,797	22,024	37,526	124,579	122,228	10,988	37,671	51,076
Florida.....	4,159	7,308	8,356	12,884	50,581	70,877	2,710	12,910	18,279
<b>East S. Central.....</b>	<b>85,282</b>	<b>109,619</b>	<b>103,782</b>	<b>203,125</b>	<b>570,595</b>	<b>482,813</b>	<b>59,770</b>	<b>176,102</b>	<b>202,449</b>
Kentucky.....	25,846	35,531	29,782	81,315	230,557	150,923	23,411	67,116	65,403
Tennessee.....	17,362	27,496	25,770	47,232	159,001	131,288	12,626	49,836	53,890
Alabama.....	19,230	24,748	23,659	32,311	81,889	79,541	10,351	29,103	33,828
Mississippi.....	22,844	21,844	24,571	42,266	99,149	121,061	13,381	30,046	49,829
<b>West S. Central.....</b>	<b>96,687</b>	<b>131,550</b>	<b>117,523</b>	<b>484,015</b>	<b>1,134,848</b>	<b>924,782</b>	<b>121,366</b>	<b>304,632</b>	<b>345,423</b>
Arkansas.....	16,555	29,504	26,489	35,035	129,348	115,471	8,941	38,539	46,283
Louisiana.....	7,520	10,301	12,958	28,772	68,302	70,564	8,950	20,491	30,270
Oklahoma.....	24,583	34,045	27,366	122,327	272,616	184,013	27,385	73,434	73,079
Texas.....	48,024	57,700	50,710	297,881	664,523	554,735	76,089	172,167	195,790
<b>Mountain.....</b>	<b>26,731</b>	<b>74,118</b>	<b>59,368</b>	<b>247,994</b>	<b>927,906</b>	<b>543,823</b>	<b>59,364</b>	<b>253,424</b>	<b>234,899</b>
Montana.....	3,990	21,244	11,754	44,615	240,550	95,174	10,741	77,950	42,565
Idaho.....	7,594	17,142	12,997	64,376	223,649	121,917	14,557	69,868	54,912
Wyoming.....	1,531	3,937	3,653	16,675	55,610	33,654	4,208	15,303	14,865
Colorado.....	7,571	15,735	14,444	77,332	211,701	144,065	18,986	62,623	61,408
New Mexico.....	1,397	4,331	4,823	10,683	43,085	31,215	2,590	11,178	11,579
Arizona.....	813	2,876	2,623	8,695	50,453	36,330	2,253	15,648	13,321
Utah.....	3,526	8,086	7,996	21,320	84,578	59,172	4,564	24,335	26,164
Nevada.....	309	767	1,068	4,297	18,281	22,296	1,464	6,519	10,084
<b>Pacific.....</b>	<b>44,419</b>	<b>71,196</b>	<b>87,156</b>	<b>457,119</b>	<b>1,132,848</b>	<b>1,248,296</b>	<b>108,847</b>	<b>337,184</b>	<b>435,498</b>
Washington.....	12,715	19,503	23,412	113,395	202,018	299,425	25,645	61,121	74,212
Oregon.....	10,274	14,355	17,393	93,525	166,663	174,196	21,166	61,999	65,892
California.....	21,430	37,338	46,351	250,199	764,166	874,675	60,037	224,064	295,689

Source Bureau of the Census, Department of Commerce

**No. 590.—NUMBER OF FARMS: BY KIND OF ROAD ON WHICH LOCATED AND DISTANCE FROM NEAREST MARKET TOWN**

Item	United States	New England	Middle Atlantic	East North Central	West North Central
<b>Total number of farms</b> .....	<b>6, 371, 640</b>	<b>159, 489</b>	<b>418, 863</b>	<b>1, 051, 572</b>	<b>1, 111, 314</b>
<b>Kind of road located on.</b>					
Concrete or brick.....	156, 434	2, 066	26, 048	52, 298	8, 735
Macadam.....	316, 527	19, 074	66, 883	101, 231	6, 420
Gravel.....	946, 057	38, 936	33, 832	339, 076	115, 906
Improved dirt.....	1, 998, 704	35, 656	63, 270	188, 522	495, 410
Unimproved dirt.....	2, 747, 732	60, 808	208, 958	337, 794	450, 338
All other (including not reported).....	206, 186	2, 949	19, 877	32, 651	34, 605
<b>Distance from nearest market town:</b>					
Farms reporting.....	6, 279, 368	157, 877	408, 754	1, 036, 655	1, 094, 313
Under 2 miles.....	802, 785	26, 044	60, 893	170, 599	154, 633
2 to 3 9 miles.....	1, 463, 173	40, 700	107, 896	325, 945	289, 257
4 to 5 9 miles.....	1, 261, 574	30, 756	80, 765	250, 937	262, 173
6 to 7 9 miles.....	902, 098	21, 406	52, 966	138, 091	167, 751
8 to 9 9 miles.....	563, 244	13, 161	30, 985	65, 247	90, 410
10 to 14 9 miles.....	736, 034	16, 596	43, 840	58, 777	86, 522
15 miles and over.....	550, 460	9, 214	31, 709	27, 059	43, 567
Farms not reporting.....	92, 272	1, 612	10, 114	14, 917	17, 001

  

Item	South Atlantic	East South Central	West South Central	Mountain	Pacific
<b>Total number of farms</b> .....	<b>1, 108, 061</b>	<b>1, 006, 052</b>	<b>1, 017, 305</b>	<b>233, 392</b>	<b>265, 587</b>
<b>Kind of road located on.</b>					
Concrete or brick.....	24, 644	6, 495	7, 548	4, 833	23, 767
Macadam.....	30, 672	64, 227	7, 753	831	19, 436
Gravel.....	42, 703	152, 580	112, 573	30, 954	79, 497
Improved dirt.....	385, 994	281, 337	410, 735	82, 777	54, 953
Unimproved dirt.....	589, 343	472, 522	452, 117	102, 245	73, 607
All other (including not reported).....	34, 705	28, 891	26, 529	11, 752	14, 327
<b>Distance from nearest market town.</b>					
Farms reporting.....	1, 093, 177	991, 780	1, 006, 320	229, 543	260, 949
Under 2 miles.....	106, 063	97, 324	109, 278	28, 595	49, 356
2 to 3 9 miles.....	208, 330	181, 479	202, 324	39, 694	67, 548
4 to 5 9 miles.....	196, 270	168, 921	196, 898	30, 955	43, 899
6 to 7 9 miles.....	165, 121	144, 501	159, 907	23, 516	28, 839
8 to 9 9 miles.....	115, 448	107, 158	105, 646	16, 723	18, 466
10 to 14 9 miles.....	162, 833	171, 910	142, 757	28, 049	25, 050
15 miles and over.....	139, 112	120, 487	89, 510	62, 011	27, 791
Farms not reporting.....	14, 884	14, 272	10, 985	3, 849	4, 638

Source Bureau of the Census, Department of Commerce



## No. 591.—FARM EXPENDITURES FOR LABOR,

Division and State	Labor						Fertilizer	
	Farms reporting				Cash expended (thousands of dollars)		Farms reporting	
	Number		Per cent of all farms				Number	
	1919	1924	1919	1924	1919	1924	1919	1924
United States.....	2,888,999	2,536,721	44 8	39 8	1,098,713	864,982	2,271,179	2,184,056
New England.....	90,031	77,913	57.5	48.5	43,687	41,945	77,985	74,289
Maine.....	26,735	23,641	55.4	47.3	7,506	6,800	22,641	25,437
New Hampshire.....	11,365	9,292	55.4	44.1	3,665	3,015	8,799	6,883
Vermont.....	18,171	14,822	62.5	53.3	5,789	4,560	14,668	13,006
Massachusetts.....	18,322	15,788	57.3	47.2	13,929	14,375	16,992	15,146
Rhode Island.....	2,296	2,159	56.2	55.2	1,730	1,894	2,297	2,184
Connecticut.....	13,142	11,611	58.0	50.0	11,067	10,602	12,668	11,533
Middle Atlantic.....	260,960	214,879	61.4	51.3	95,198	80,797	280,583	250,649
New York.....	121,256	101,091	62.8	53.6	49,346	42,236	113,578	102,403
New Jersey.....	18,588	15,478	62.6	52.2	14,359	14,186	22,774	20,191
Pennsylvania.....	121,116	98,310	59.9	49.0	31,494	24,376	144,231	128,055
East North Central.....	582,622	472,301	58.7	44.9	182,314	126,504	360,314	315,639
Ohio.....	124,806	92,190	45.6	37.7	36,339	22,026	165,556	137,207
Indiana.....	93,207	69,430	45.4	38.9	25,609	14,048	98,703	70,950
Illinois.....	151,300	124,843	49.3	35.2	60,909	43,146	22,488	21,659
Michigan.....	102,431	85,213	52.1	44.3	24,876	19,847	65,782	61,674
Wisconsin.....	110,878	103,925	58.6	53.8	34,582	26,837	7,785	18,049
West North Central.....	673,998	608,112	61.4	54.7	263,703	186,964	60,913	44,007
Minnesota.....	111,697	104,924	62.6	55.7	36,451	27,463	3,031	4,989
Iowa.....	136,682	119,753	64.0	56.1	52,942	35,529	3,177	6,382
Missouri.....	125,243	94,715	47.6	36.4	33,037	18,632	47,883	27,924
North Dakota.....	51,109	62,050	65.8	81.7	27,786	33,503	488	341
South Dakota.....	49,658	40,540	66.5	62.3	24,122	15,492	175	300
Nebraska.....	80,696	74,950	64.9	58.7	34,604	22,560	476	815
Kansas.....	117,908	102,180	71.3	61.6	54,761	33,785	6,183	3,247
South Atlantic.....	376,580	306,598	32.5	27.7	88,226	73,336	693,634	842,966
Delaware.....	5,394	4,426	53.2	43.2	2,052	1,769	9,107	7,836
Maryland.....	29,123	24,665	60.8	50.3	12,915	9,833	39,270	35,595
Dist. of Columbia.....	112	73	54.9	36.1	36	15	116	89
Virginia.....	66,500	60,427	35.7	31.2	17,003	15,227	135,218	126,373
West Virginia.....	31,328	24,800	35.9	26.9	4,787	3,761	35,309	28,945
North Carolina.....	78,394	69,551	29.1	24.5	10,818	8,096	228,767	238,319
South Carolina.....	62,095	39,531	32.2	22.9	13,688	8,159	176,537	155,650
Georgia.....	83,444	60,345	26.9	24.2	16,705	11,926	280,385	212,214
Florida.....	20,190	23,275	37.4	39.3	10,118	14,232	28,925	37,945
East South Central.....	247,906	193,262	23.6	19.2	37,855	26,016	418,217	446,613
Kentucky.....	76,953	54,870	28.4	21.2	15,292	8,881	86,687	71,874
Tennessee.....	70,494	56,341	27.9	22.3	9,647	7,097	84,827	86,082
Alabama.....	57,308	52,892	22.4	22.3	6,589	5,503	175,407	184,079
Mississippi.....	43,151	29,159	15.9	11.3	6,327	4,535	71,296	104,578
West South Central.....	389,994	368,280	39.2	38.0	147,417	118,705	108,894	178,496
Arkansas.....	66,720	62,223	28.7	28.0	12,068	9,678	41,338	50,828
Louisiana.....	30,166	27,191	22.3	20.5	19,700	11,856	37,652	54,412
Oklahoma.....	102,674	94,978	53.5	48.2	35,333	26,238	2,445	2,235
Texas.....	190,434	201,888	43.7	43.4	80,815	71,933	27,459	65,021
Mountain.....	125,480	128,868	51.4	55.2	84,892	68,350	4,926	4,077
Montana.....	24,378	30,408	42.3	64.8	15,603	15,136	453	132
Idaho.....	24,789	22,811	58.9	56.2	14,734	9,294	575	633
Wyoming.....	6,961	7,012	44.2	45.2	6,717	5,733	55	45
Colorado.....	35,149	33,749	58.6	58.2	23,147	16,854	1,184	1,182
New Mexico.....	11,638	11,823	38.7	37.3	5,260	4,934	1,458	1,127
Arizona.....	5,639	5,820	56.5	53.9	7,664	7,287	126	252
Utah.....	15,033	14,917	58.6	57.4	7,472	5,145	1,017	684
Nevada.....	1,993	2,328	63.0	60.0	4,296	3,968	58	22
Pacific.....	149,428	149,108	60.8	58.1	155,420	142,064	25,733	27,320
Washington.....	38,055	35,155	57.4	40.3	28,330	21,727	3,645	4,891
Oregon.....	27,959	25,117	55.7	50.3	17,162	14,991	6,614	5,883
California.....	76,414	84,836	64.9	62.2	109,928	105,346	16,474	16,446

Source. Bureau of the Census, Department of Commerce.

## FERTILIZER, AND FEED: BY STATES, 1919 AND 1924

Fertilizer—Continued				Feed								Division and State
Farms reporting—Continued		Cash expended (thousands of dollars)		Farms reporting				Cash expended (thousands of dollars)				
Per cent of all farms				Number		Per cent of all farms						
				1919	1924							
1919	1924	1919	1924	1919	1924	1919	1924	1919	1924			
35.2	34.3	326,400	230,528	3,511,121	3,190,739	54.4	50.1	1,097,225	750,445	United States.		
49.8	46.6	18,323	16,336	134,450	130,968	85.9	82.1	69,539	64,822	New England.		
46.9	50.8	7,759	7,096	39,794	37,257	82.5	74.5	14,859	11,908	Maine		
42.9	33.1	526	441	18,015	17,228	87.8	81.8	8,726	7,467	New Hampshire.		
50.1	46.8	857	794	25,389	23,287	87.3	83.8	11,071	10,034	Vermont.		
53.1	45.3	3,907	3,336	27,858	26,853	87.0	86.2	20,273	19,775	Massachusetts.		
56.3	55.8	330	301	3,608	3,633	88.4	92.9	2,889	3,046	Rhode Island.		
55.9	49.6	4,894	4,369	19,791	20,710	87.4	89.1	11,721	12,590	Connecticut		
66.0	59.8	41,438	31,393	340,080	320,362	80.0	76.5	149,363	122,165	Middle Atlantic.		
58.8	54.3	15,067	11,607	158,428	145,614	82.0	77.1	82,966	62,075	New York		
76.7	68.0	10,743	8,597	24,933	24,906	83.9	83.9	14,719	16,469	New Jersey.		
71.3	63.9	15,628	11,189	156,719	149,842	77.5	74.8	51,678	43,621	Pennsylvania		
33.2	30.0	30,589	22,140	683,476	605,911	63.0	57.6	197,070	119,625	East North Central		
64.5	56.1	13,206	9,082	161,658	142,395	63.0	58.2	40,378	26,087	Ohio.		
48.1	39.3	8,735	5,712	130,075	102,795	63.4	52.5	42,306	19,066	Indiana		
9.5	9.6	2,996	2,238	158,180	128,484	66.7	57.0	64,528	32,871	Illinois		
33.5	32.2	4,873	3,971	111,191	95,302	56.6	49.6	21,939	14,600	Michigan		
4.1	9.3	780	1,137	122,372	136,935	64.6	70.9	27,919	27,002	Wisconsin		
5.6	4.0	6,168	3,092	693,629	600,966	63.2	54.1	307,163	173,731	West North Central.		
1.7	2.7	433	454	100,530	95,044	56.3	50.5	22,941	14,639	Minnesota		
1.5	3.0	597	538	147,605	134,282	69.2	62.9	79,069	49,281	Iowa.		
18.0	10.7	3,941	1,498	104,639	144,742	62.6	55.6	60,172	33,841	Missouri		
.6	.4	120	76	34,260	26,260	54.0	34.6	12,155	3,845	North Dakota.		
2	4	52	37	37,966	30,411	50.9	38.2	16,689	8,737	South Dakota		
4	6	65	133	83,374	71,092	67.0	55.7	58,624	34,309	Nebraska		
3.7	2.0	979	342	117,548	99,135	71.1	59.8	57,515	29,078	Kansas		
80.6	76.1	185,700	110,472	480,494	402,747	41.5	36.3	60,505	49,770	South Atlantic.		
89.8	76.4	1,222	1,142	6,405	6,926	63.2	67.5	1,490	1,935	Delaware		
82.0	72.6	7,610	5,126	33,353	32,544	69.6	66.4	8,045	7,600	Maryland.		
56.9	64.0	23	39	153	100	75.0	71.9	171	201	Dist of Columbia		
72.6	65.2	17,278	13,083	97,297	91,338	52.2	47.1	12,400	10,367	Virginia.		
40.5	32.0	1,710	1,049	47,183	51,466	54.1	56.9	5,640	5,962	West Virginia.		
84.8	84.1	48,797	32,002	128,964	107,359	47.8	37.9	12,292	8,675	North Carolina.		
91.6	90.1	52,547	24,306	60,088	26,741	31.2	15.5	5,904	2,322	South Carolina.		
90.2	85.2	46,196	21,100	86,580	62,632	27.9	25.2	9,539	6,305	Georgia		
53.6	64.1	10,317	12,625	20,471	23,591	37.9	39.8	5,025	6,403	Florida.		
39.8	44.4	25,477	25,891	369,149	368,694	35.1	36.6	43,364	35,583	East South Central.		
32.0	27.8	3,597	2,279	119,689	94,052	44.2	36.4	16,017	9,163	Kentucky		
33.6	34.1	3,525	2,786	100,074	92,139	39.6	36.5	11,165	8,701	Tennessee		
68.5	77.5	14,066	14,504	71,668	68,606	28.0	36.4	5,921	7,063	Alabama		
26.2	40.7	4,288	6,262	77,718	95,897	28.6	37.3	10,261	10,656	Mississippi		
10.9	17.5	8,697	11,461	505,490	486,710	50.7	47.8	121,092	72,778	West South Central.		
17.8	25.6	2,573	2,995	118,998	111,809	51.2	50.4	17,725	12,379	Arkansas		
27.8	41.1	3,840	4,140	56,423	66,910	41.7	50.5	12,232	10,121	Louisiana.		
1.3	1.1	452	203	114,488	106,105	49.6	53.8	30,872	15,618	Oklahoma.		
6.3	14.0	1,531	4,124	215,581	201,886	49.4	43.4	60,762	34,661	Texas.		
2.0	1.7	809	378	141,139	107,395	57.8	48.0	68,636	31,638	Mountain.		
.8	3	126	6	37,901	16,406	65.7	35.0	19,791	3,578	Montana		
1.4	1.6	106	59	24,062	19,360	57.1	47.7	10,709	5,494	Idaho		
.3	3	8	7	8,223	7,050	56.0	45.4	6,910	2,587	Wyoming.		
2.0	2.0	294	127	36,092	29,598	60.2	51.0	18,431	10,371	Colorado		
4.9	3.6	113	88	14,586	15,349	48.9	48.4	5,371	3,347	New Mexico.		
1.3	2.3	41	46	4,906	6,139	49.2	56.8	2,060	2,413	Arizona.		
4.0	2.6	109	42	13,082	11,313	51.0	43.5	3,941	2,502	Utah.		
1.8	.6	10	2	1,687	2,180	53.3	56.1	1,423	1,346	Nevada.		
11.0	10.3	9,198	9,365	163,214	166,968	69.7	62.9	80,493	80,333	Pacific.		
5.5	6.7	526	535	51,038	51,230	77.0	69.9	20,722	17,161	Washington.		
11.2	10.5	490	458	34,404	35,381	68.5	63.3	13,390	10,156	Oregon.		
14.0	12.1	8,183	8,371	77,772	80,375	66.1	58.9	46,381	53,016	California.		

### No. 592.—COOPERATIVE MARKETING AND PURCHASING THROUGH FARMERS' ORGANIZATIONS: BY DIVISIONS, 1919 AND 1924

NOTE.—For total number of all farms (base for percentages) see Table 572

Division	Number of farms reporting sales			Number of farms reporting purchases			Value of farm products sold		Value of supplies purchased	
	1919	1924	Per cent of all farms, 1924	1919	1924	Per cent of all farms, 1924	1919	1924	1919	1924
							Thousands of dollars			
United States	511,383	884,207	13.9	329,449	362,745	5.7	721,984	858,284	84,616	75,971
New England	4,060	10,845	6.8	7,579	10,787	6.8	5,917	20,745	3,036	5,709
Middle Atlantic	33,854	39,295	9.4	17,884	24,716	5.9	61,224	50,274	6,194	7,377
East North Central	144,339	205,409	19.5	83,518	103,199	9.8	132,639	145,068	14,306	15,688
West North Central	243,288	303,190	27.3	166,084	140,588	12.7	300,821	292,354	43,116	25,740
South Atlantic	9,517	90,879	8.2	12,230	20,830	1.9	20,640	73,377	2,608	4,968
East South Central	12,705	91,073	9.1	5,285	21,293	2.1	5,271	49,827	763	2,692
West South Central	15,635	67,715	6.7	9,332	17,720	1.7	26,934	75,724	2,803	2,703
Mountain	12,785	24,581	10.5	13,875	8,000	3.4	17,443	35,043	3,769	1,710
Pacific	35,200	51,220	19.3	13,662	15,612	5.9	151,094	115,871	8,021	9,385

Source Bureau of the Census, Department of Commerce.

### No. 593.—COOPERATIVE MARKETING AND PURCHASING THROUGH FARMERS' ORGANIZATIONS: BY STATES, 1924

State	Number of farms reporting—		Value (thousands of dollars) of—		State	Number of farms reporting—		Value (thousands of dollars) of—	
	Sales	Purchases	Farm products sold	Supplies purchased		Sales	Purchases	Farm products sold	Supplies purchased
<b>New England:</b>					<b>South Atlantic—Con.</b>				
Maine	2,555	1,896	3,823	626	West Virginia	3,106	2,769	919	320
New Hampshire	428	1,701	375	911	North Carolina	22,167	2,791	13,018	450
Vermont	2,745	3,186	3,877	1,485	South Carolina	10,601	819	8,922	335
Massachusetts	2,991	2,278	4,145	1,462	Georgia	13,376	2,388	9,082	304
Rhode Island	235	213	571	123	Florida	7,755	2,063	13,104	1,257
Connecticut	2,791	1,513	7,955	1,102	<b>East South Central:</b>				
<b>Middle Atlantic:</b>					Kentucky	53,704	3,308	27,515	504
New York	26,586	12,509	37,945	3,927	Tennessee	15,303	4,490	7,182	446
New Jersey	1,401	1,606	2,309	957	Alabama	11,365	7,640	7,029	1,021
Pennsylvania	11,308	10,601	10,020	2,492	Mississippi	10,701	5,855	8,102	721
<b>East North Central:</b>					<b>West South Central:</b>				
Ohio	39,995	24,711	27,991	3,590	Arkansas	8,861	3,910	7,119	459
Indiana	28,550	14,558	17,213	1,774	Louisiana	10,114	4,393	8,604	782
Illinois	52,606	17,471	52,828	2,979	Oklahoma	19,049	4,878	20,854	667
Michigan	38,730	25,124	19,552	3,607	Texas	29,691	4,539	39,147	794
Wisconsin	45,528	21,335	27,484	3,738	<b>Mountain:</b>				
<b>West North Central:</b>					Montana	2,899	708	3,081	135
Minnesota	79,891	26,066	73,261	3,844	Idaho	3,272	1,040	2,712	144
Iowa	72,659	34,034	81,291	6,581	Wyoming	1,231	512	1,009	226
Missouri	60,860	33,343	32,572	4,588	Colorado	10,828	3,703	21,090	883
North Dakota	12,913	5,527	17,032	1,363	New Mexico	2,014	829	3,254	139
South Dakota	17,769	8,535	18,651	1,451	Arizona	523	222	1,514	65
Nebraska	28,139	15,461	32,741	3,715	Utah	3,775	974	2,368	116
Kansas	30,979	17,322	36,805	4,199	Nevada	39	12	16	2
<b>South Atlantic:</b>					<b>Pacific:</b>				
Delaware	193	415	122	136	Washington	13,205	6,500	20,564	3,470
Maryland	6,121	3,817	7,298	910	Oregon	5,590	2,858	8,062	1,160
Virginia	27,560	5,768	20,912	1,256	California	32,425	6,254	87,245	4,755

Source: Bureau of the Census, Department of Commerce.

### No. 592.—COOPERATIVE MARKETING AND PURCHASING THROUGH FARMERS' ORGANIZATIONS: BY DIVISIONS, 1919 AND 1924

NOTE.—For total number of all farms (base for percentages) see Table 572

Division	Number of farms reporting sales			Number of farms reporting purchases			Value of farm products sold		Value of supplies purchased	
	1919	1924	Per cent of all farms, 1924	1919	1924	Per cent of all farms, 1924	1919	1924	1919	1924
							Thousands of dollars			
United States	511,383	884,207	13.9	329,449	362,745	5.7	721,984	858,284	84,616	75,971
New England	4,060	10,845	6.8	7,579	10,787	6.8	5,917	20,745	3,036	5,709
Middle Atlantic	33,854	39,295	9.4	17,884	24,716	5.9	61,224	50,274	6,194	7,377
East North Central	144,339	205,409	19.5	83,518	103,199	9.8	132,639	145,068	14,306	15,688
West North Central	243,288	303,190	27.3	166,084	140,588	12.7	300,821	292,354	43,116	25,740
South Atlantic	9,517	90,879	8.2	12,230	20,830	1.9	20,640	73,377	2,608	4,968
East South Central	12,705	91,073	9.1	5,285	21,293	2.1	5,271	49,827	763	2,692
West South Central	15,635	67,715	6.7	9,332	17,720	1.7	26,934	75,724	2,803	2,703
Mountain	12,785	24,581	10.5	13,875	8,000	3.4	17,443	35,043	3,769	1,710
Pacific	35,200	51,220	19.3	13,662	15,612	5.9	151,094	115,871	8,021	9,385

Source Bureau of the Census, Department of Commerce.

### No. 593.—COOPERATIVE MARKETING AND PURCHASING THROUGH FARMERS' ORGANIZATIONS: BY STATES, 1924

State	Number of farms reporting—		Value (thousands of dollars) of—		State	Number of farms reporting—		Value (thousands of dollars) of—	
	Sales	Purchases	Farm products sold	Supplies purchased		Sales	Purchases	Farm products sold	Supplies purchased
<b>New England:</b>					<b>South Atlantic—Con.</b>				
Maine	2,555	1,896	3,823	626	West Virginia	3,106	2,769	919	320
New Hampshire	428	1,701	375	911	North Carolina	22,167	2,791	13,018	450
Vermont	2,745	3,186	3,877	1,485	South Carolina	10,601	819	8,922	335
Massachusetts	2,991	2,278	4,145	1,462	Georgia	13,376	2,388	9,082	304
Rhode Island	235	213	571	123	Florida	7,755	2,063	13,104	1,257
Connecticut	2,791	1,513	7,955	1,102	<b>East South Central:</b>				
<b>Middle Atlantic:</b>					Kentucky	53,704	3,308	27,515	504
New York	26,586	12,509	37,945	3,927	Tennessee	15,303	4,490	7,182	446
New Jersey	1,401	1,606	2,309	957	Alabama	11,365	7,640	7,029	1,021
Pennsylvania	11,308	10,601	10,020	2,492	Mississippi	10,701	5,855	8,102	721
<b>East North Central:</b>					<b>West South Central:</b>				
Ohio	39,995	24,711	27,991	3,590	Arkansas	8,861	3,910	7,119	459
Indiana	28,550	14,558	17,213	1,774	Louisiana	10,114	4,393	8,604	782
Illinois	52,606	17,471	52,828	2,979	Oklahoma	19,049	4,878	20,854	667
Michigan	38,730	25,124	19,552	3,607	Texas	29,691	4,539	39,147	794
Wisconsin	45,528	21,335	27,484	3,738	<b>Mountain:</b>				
<b>West North Central:</b>					Montana	2,899	708	3,081	135
Minnesota	79,891	26,066	73,261	3,844	Idaho	3,272	1,040	2,712	144
Iowa	72,659	34,034	81,291	6,581	Wyoming	1,231	512	1,009	226
Missouri	60,860	33,343	32,572	4,588	Colorado	10,828	3,703	21,090	883
North Dakota	12,913	5,527	17,032	1,363	New Mexico	2,014	829	3,254	139
South Dakota	17,769	8,535	18,651	1,451	Arizona	523	222	1,514	65
Nebraska	28,139	15,461	32,741	3,715	Utah	3,775	974	2,368	116
Kansas	30,979	17,322	36,805	4,199	Nevada	39	12	16	2
<b>South Atlantic:</b>					<b>Pacific:</b>				
Delaware	193	415	122	136	Washington	13,205	6,500	20,564	3,470
Maryland	6,121	3,817	7,298	910	Oregon	5,590	2,858	8,062	1,160
Virginia	27,560	5,768	20,912	1,256	California	32,425	6,254	87,245	4,755

Source: Bureau of the Census, Department of Commerce.

## No. 595.—FARMS REPORTING TRACTORS AND RADIO OUTFITS, 1925

NOTE.—For other farm equipment and conveniences in 1920 see Table 594

Division and State	Tractors		Radio outfits		Division and State	Tractors		Radio outfits	
	Number of farms reporting	Per cent of all farms	Number of farms reporting	Per cent of all farms		Number of farms reporting	Per cent of all farms	Number of farms reporting	Per cent of all farms
<b>United States</b> .....	<b>473, 848</b>	<b>7 4</b>	<b>284, 008</b>	<b>4 5</b>	<b>South Atlantic—Con</b>				
<b>New England</b> .....	<b>7, 319</b>	<b>4 6</b>	<b>19, 005</b>	<b>11 9</b>	Virginia.....	6, 362	3 3	3, 715	1 9
Maine.....	1, 684	3 4	3, 493	7 0	West Virginia.....	1, 765	2 0	1, 741	1 9
New Hampshire.....	1, 494	2 3	2, 366	11 2	North Carolina.....	7, 595	2 7	1, 357	. 5
Vermont.....	1, 500	5 4	2, 778	10 0	South Carolina.....	2, 658	1 5	867	. 5
Massachusetts.....	2, 046	6 1	6, 434	19 2	Georgia.....	3, 769	1 5	1, 293	. 5
Rhode Island.....	280	7 2	1, 246	31 9	Florida.....	2, 352	4 0	506	. 9
Connecticut.....	1, 315	5 7	2, 688	11 6	<b>East South Central</b> .....	<b>13, 289</b>	<b>1 3</b>	<b>6, 484</b>	<b>6</b>
<b>Middle Atlantic</b> .....	<b>47, 471</b>	<b>11 3</b>	<b>45, 812</b>	<b>10 9</b>	Kentucky.....	4, 793	1 9	2, 878	1 1
New York.....	24, 360	12 9	24, 623	13 0	Tennessee.....	4, 571	1 8	1, 939	. 8
New Jersey.....	4, 113	13 9	6, 256	21 1	Alabama.....	2, 261	1 0	739	. 3
Pennsylvania.....	19, 008	9 5	14, 933	7 4	Mississippi.....	1, 674	. 7	928	. 4
<b>East North Central</b> .....	<b>141, 670</b>	<b>13 5</b>	<b>69, 291</b>	<b>6 6</b>	<b>West South Central *</b>	<b>29, 845</b>	<b>2 9</b>	<b>16, 130</b>	<b>1 6</b>
Ohio.....	29, 951	12 2	15, 916	6 5	Arkansas.....	2, 554	1 2	1, 245	. 6
Indiana.....	22, 817	11 7	8, 663	4 4	Louisiana.....	2, 466	1 9	448	. 3
Illinois.....	41, 435	18 4	27, 436	12 2	Oklahoma.....	9, 954	5 0	2, 707	1 4
Michigan.....	18, 515	9 6	9, 028	4 7	Texas.....	14, 871	3 2	11, 730	2 5
Wisconsin.....	28, 952	15 0	8, 248	4 3	<b>Mountain</b> .....	<b>17, 899</b>	<b>7 7</b>	<b>6, 923</b>	<b>3 0</b>
<b>West North Central</b> .....	<b>151, 838</b>	<b>13 7</b>	<b>88, 529</b>	<b>8 0</b>	Montana.....	5, 857	12 5	1, 941	4 1
Minnesota.....	25, 539	13 6	11, 770	6 3	Idaho.....	1, 796	4 4	805	2 0
Iowa.....	35, 692	16 7	23, 645	11 1	Wyoming.....	1, 219	7 9	623	4 0
Missouri.....	12, 066	4 6	17, 591	6 8	Colorado.....	5, 970	10 3	2, 426	4 2
North Dakota.....	15, 853	20 9	4, 729	6 2	New Mexico.....	995	3 1	286	. 9
South Dakota.....	16, 373	20 6	4, 866	6 1	Arizona.....	1, 060	9 8	302	2 8
Nebraska.....	17, 727	13 9	12, 739	10 0	Utah.....	804	3 1	386	1 5
Kansas.....	28, 587	17 2	13, 189	8 0	Nevada.....	198	5 1	154	4 0
<b>South Atlantic</b> .....	<b>28, 938</b>	<b>2 6</b>	<b>12, 636</b>	<b>1 1</b>	<b>Pacific</b> .....	<b>35, 569</b>	<b>13 4</b>	<b>19, 198</b>	<b>7 2</b>
Delaware.....	619	6 0	342	3 3	Washington.....	4, 314	5 9	2, 691	3 7
Maryland.....	3, 814	7 8	2, 779	5 7	Oregon.....	5, 364	9 6	3, 251	5 8
Dist. of Columbia.....	4	2 9	36	25 9	California.....	25, 891	19 0	13, 254	9 7

Source: Bureau of the Census, Department of Commerce

## No. 596.—NUMBER OF TRACTORS ON FARMS, 1925

Division and State	Tractors	Division and State	Tractors	Division and State	Tractors
<b>United States</b> .....	<b>505, 933</b>	<b>West North Central—Con</b>		<b>West South Central</b> .....	<b>34, 688</b>
<b>New England</b> .....	<b>7, 844</b>	Iowa.....	37, 230	Arkansas.....	3, 476
Maine.....	1, 774	Missouri.....	12, 745	Louisiana.....	3, 482
New Hampshire.....	531	North Dakota.....	17, 483	Oklahoma.....	10, 950
Vermont.....	1, 568	South Dakota.....	17, 426	Texas.....	16, 780
Massachusetts.....	2, 212	Nebraska.....	18, 765	<b>Mountain</b> .....	<b>19, 885</b>
Rhode Island.....	318	Kansas.....	31, 171	Montana.....	6, 602
Connecticut.....	1, 441	<b>South Atlantic</b> .....	<b>31, 075</b>	Idaho.....	1, 927
<b>Middle Atlantic</b> .....	<b>49, 864</b>	Delaware.....	694	Wyoming.....	1, 323
New York.....	25, 681	Maryland.....	4, 026	Colorado.....	6, 693
New Jersey.....	4, 419	Dist. of Columbia.....	8	New Mexico.....	1, 080
Pennsylvania.....	19, 764	Virginia.....	6, 750	Arizona.....	1, 239
<b>East North Central</b> .....	<b>146, 665</b>	West Virginia.....	1, 860	Utah.....	850
Ohio.....	30, 905	North Carolina.....	7, 909	Nevada.....	221
Indiana.....	23, 567	South Carolina.....	2, 906	<b>Pacific</b> .....	<b>40, 206</b>
Illinois.....	43, 325	Georgia.....	4, 145	Washington.....	4, 490
Michigan.....	19, 217	Florida.....	2, 147	Oregon.....	5, 768
Wisconsin.....	29, 651	<b>East South Central</b> .....	<b>14, 077</b>	California.....	29, 948
<b>West North Central</b> .....	<b>161, 559</b>	Kentucky.....	4, 994		
Minnesota.....	26, 739	Tennessee.....	4, 767		
		Alabama.....	2, 465		
		Mississippi.....	1, 871		

Source. Bureau of the Census, Department of Commerce.

## 26.—FARM PRODUCTS—VALUE, PRICES, AND FOREIGN TRADE

[Data in this section relate to continental United States except foreign trade statistics which represent the trade of the "customs area" (see general note, p. 462)]

### No. 597.—ESTIMATED VALUE OF FARM PRODUCTS

NOTE.—Values 1897 to 1908 are based on farm prices Dec. 1 while those for 1909 to date are obtained by multiplying crop and animal production by weighted prices for the crop year. Beginning with 1919, a number of items which previously had not been included in making these estimates were added

[In millions of dollars]

Year	Crops	Animal products	Crops fed to live-stock	Total, excluding crops fed to live-stock	Year	Crops	Animal products	Crops fed to live-stock	Total, excluding crops fed to live-stock
1897-----	2,519	1,442	1,057	2,904	1912-----	6,799	3,778	3,110	7,467
1898-----	2,760	1,579	1,178	3,161	1913-----	6,717	4,099	2,930	7,886
1899 (census)-----	3,020	1,718	1,383	3,355	1914-----	7,288	4,249	3,352	8,165
1900-----	3,192	1,818	1,461	3,549	1915-----	7,957	4,303	3,622	8,638
1901-----	3,385	1,917	1,659	3,643	1916-----	10,305	4,862	4,808	10,359
1902-----	3,578	2,016	1,787	3,807	1917-----	14,277	6,539	6,867	13,949
1903-----	3,772	2,116	1,752	4,136	1918-----	14,814	8,082	6,392	16,504
1904-----	3,932	2,140	1,860	4,262	1919-----	16,561	8,275	7,159	17,677
1905-----	4,013	2,261	1,987	4,387	1920-----	11,578	7,709	4,476	14,811
1906-----	4,263	2,501	1,850	4,784	1921-----	7,759	5,589	3,080	10,268
1907-----	4,761	2,727	2,293	5,195	1922-----	9,430	5,651	3,870	11,211
1908-----	5,098	2,792	2,426	5,464	1923-----	10,401	6,271	4,290	12,382
1909-----	5,483	3,398	2,409	6,472	1924-----	10,770	5,902	4,453	12,219
1910-----	6,211	3,743	2,762	7,192	1925-----	10,170	6,647	3,783	13,034
1911-----	6,495	3,485	2,988	6,992	1926-----	9,266	7,300	3,581	12,985

### No. 598.—ESTIMATED VALUE OF FARM PRODUCTS, BY CLASSES

NOTE.—Value in millions of dollars. See headnote to Table 597

Product	1923		1924		1925		1926	
	Value	Per cent of total	Value	Per cent of total	Value	Per cent of total	Value	Per cent of total
Total crops-----	10,401	100 0	10,770	100 0	10,170	100 0	9,266	100 0
Cereals-----	4,138	39 8	4,669	43 3	3,917	38 5	3,687	39 8
Cotton-----	1,657	15 9	1,766	16 4	1,799	17 7	1,294	14 0
Flax, fiber, and seed-----	37	4	74	7	50	5	39	4
Fruits-----	642	6 2	614	5 7	668	6 5	666	7 2
Hay and forage-----	1,619	15 6	1,674	15 5	1,471	14 5	1,490	16 1
Legume seeds-----	172	1 7	153	1 4	130	1 2	124	1 3
Other seeds, grass, etc.-----	46	4	26	3	38	4	35	4
Sugar crops-----	153	1 5	150	1 4	108	1 1	119	1 3
Tobacco-----	311	3 0	244	2 3	234	2 3	245	2 6
Vegetables-----	1,169	11 2	963	9 0	1,288	12 7	1,117	12 1
Farm-forest products-----	318	3 1	306	2 8	327	3 2	318	3 4
Other crops-----	139	1 3	131	1 2	140	1 4	132	1 4
Total animal products-----	6,271	100 0	5,902	100 0	6,647	100 0	7,300	100 0
Animals raised-----	2,477	39 5	2,243	38 0	2,672	40 2	3,065	42 0
Bee products-----	12	.2	12	.2	12	.2	12	.2
Dairy products-----	2,652	42 3	2,586	43 8	2,746	41 3	2,952	40 3
Poultry products-----	1,039	16 6	968	16 4	1,117	16 8	1,181	16 2
Wool-----	87	1 4	89	1 5	95	1 4	85	1 2
Other animal products-----	4	1	4	.1	5	.1	5	.1
Deduct crop fed to livestock-----	4,290	-----	4,453	-----	3,783	-----	3,581	-----
Net total, all products-----	12,382	-----	12,219	-----	13,034	-----	12,985	-----

Source of Tables 597 and 598. Bureau of Agricultural Economics, Department of Agriculture.

**No. 599.—INDEX NUMBERS OF FARM PRICES AND WHOLESALE PRICES OF AGRICULTURAL PRODUCTS, BY GROUPS**

[1923-1925=100]

Yearly average or year and month	Farm prices, 30 commodities							Wholesale prices			
	Farm products	Grains	Fruits and vegetables	Meat animals	Dairy products	Poultry products	Cotton and cotton-seed	Farm products	Grains	Live-stock and poultry	Other farm products
1910-1914.....	72	75	71	86	71	66	48	69 4	72 4	86 6	59 8
1915-1920.....	121	144	120	138	100	109	93	120 1	144 4	134 0	102 6
1921-1925.....	94	92	103	97	100	100	86	95 4	94 0	97 9	94 3
1913.....	72	69	66	92	71	67	48	69 6	69 5	85 8	61 5
1920.....	147	174	178	147	134	147	123	146 6	172 4	146 7	134 9
1921.....	83	84	106	92	106	107	50	86 0	87 1	91 7	81 5
1922.....	89	79	109	96	96	92	73	91 2	83 1	97 5	89 8
1923.....	97	86	97	90	106	96	107	95 9	86 0	91 1	101 4
1924.....	96	97	89	92	96	97	105	97 3	98 3	93 0	99 2
1925.....	106	117	114	118	98	107	88	106 8	115 6	115 9	99 5
1926.....	98	97	135	124	97	103	61	97 3	97 8	117 2	86 9
1927.....	94	96	111	118	99	93	64	96 7	98 6	115 9	86 2
1928.....	100	98	104	127	100	99	76	103 0	104 9	123 6	91 9
Per cent change, 1927 to 1928.....	+6 4	+2 1	-6 3	+7 6	+1 0	+6 5	+18 8	+6 6	+6 4	+6 6	+6 6
1927.....											
January-March.....	91	91	101	120	101	95	47	92 8	92 6	116 6	80 5
April-June.....	91	97	121	115	97	72	55	93 1	100 1	111 6	81 3
July-September.....	96	103	122	115	94	83	73	99 1	103 7	116 6	88 7
October-December.....	99	93	99	119	101	122	80	101 8	98 0	118 9	94 0
December.....	99	92	101	117	104	129	76	101 6	99 7	114 8	95 3
1928.....											
January-March.....	98	97	112	118	103	98	73	101 9	106 4	115 9	93 2
April-June.....	104	114	126	125	97	83	80	105 1	120 1	121 5	92 0
July-September.....	102	95	100	139	98	95	77	104 7	99 2	137 9	89 4
October-December.....	97	85	79	128	103	121	73	100 1	93 0	119 6	92 3
December.....	96	84	77	121	104	130	74	100 8	92 2	116 2	95 6

**No. 600.—INDEX NUMBERS OF PRICES RECEIVED AND PAID BY FARMERS AND OF WHOLESALE PRICES**

[1923-1925=100]

Yearly average or year and month	Prices received for farm products	Prices paid by farmers for commodities bought <sup>1</sup>			Wages paid to hired farm labor	Wholesale prices		
		Total	For living	For production		All commodities	Farm products	Nonagricultural commodities
1910-1914.....	72	65	61	69	60	68	69	<sup>2</sup> 67-68
1915-1920.....	121	104	102	106	98	115	120	113
1921-1925.....	94	100	100	99	95	99	95	99
1910.....	74	63	60	68	58	70	72	<sup>2</sup> 69
1913.....	72	65	61	70	62	69	70	69
1920.....	147	133	139	121	143	153	147	155
1921.....	83	101	101	98	90	97	85	100
1922.....	89	98	98	97	87	96	91	97
1923.....	97	99	99	98	99	100	96	101
1924.....	96	99	99	99	99	97	97	97
1925.....	106	103	101	103	101	103	107	101
1926.....	98	101	101	99	102	99	97	100
1927.....	94	99	99	99	102	95	97	94
1928.....	100	101	99	101	101	97	103	96
1927.....								
March.....	91	99	99	99	99	94	92	95
June.....	94	100	99	100	103	93	94	93
September.....	101	99	99	100	105	96	103	94
December.....	99	99	99	98	96	96	102	95
1928.....								
March.....	99	100	99	100	99	95	101	94
June.....	105	101	99	102	102	97	104	95
September.....	101	100	100	99	105	99	106	98
December.....	97	101	99	101	97	96	101	95

<sup>1</sup> Annual indexes are based on retail prices paid by farmers, reported quarterly. <sup>2</sup> Approximate.  
Source of Tables 599 and 600: Computed from data of Departments of Agriculture and Labor.

# No. 601.—AVERAGE PREVAILING FARM WAGE RATE AND INDEX NUMBERS OF FARM WAGES

NOTE.—To 1923, yearly averages are from reports by crop reporters, giving average wages for the year in their locality; thereafter, wage rates per month are straight averages of quarterly rates April, July, October of the current year and January of the following year

Year	Average yearly farm wage per month—		Weighted average wage rate per month	Index numbers of farm wages (1910-1914=100)	Year	Average yearly farm wage per month—		Weighted average wage rate per month	Index numbers of farm wages (1910-1914=100)
	With board	Without board				With board	Without board		
1866.....	\$10 09	\$15 50	\$13 14	55	1910.....	\$19 58	\$28 04	\$23 08	97
1869.....	9 97	15 50	12 93	54	1911.....	19 85	28 33	23 25	97
1874 or 1875.....	11 16	17 10	14 19	59	1912.....	20 46	29 14	24 01	101
1877 or 1879 <sup>1</sup> .....	10 86	16 79	13 84	56	1913.....	21 27	30 21	24 83	104
1879 or 1880.....	11 70	17 53	14 14	59	1914.....	20 90	29 72	24 26	101
1880 or 1881.....	12 32	18 52	14 82	62	1915.....	21 08	29 97	24 46	102
1881 or 1882.....	12 88	19 11	15 48	65	1916.....	23 04	32 58	26 83	112
1884 or 1885.....	13 08	19 22	15 58	65	1917.....	28 64	40 19	33 42	140
1887 or 1888.....	13 29	19 67	15 87	66	1918.....	35 12	49 13	42 12	176
1889 or 1890.....	13 29	19 45	15 79	66	1919.....	40 14	56 77	49 11	206
1891 or 1892.....	13 48	20 02	16 06	67	1920.....	47 24	65 05	57 01	239
1893.....	13 85	19 97	15 93	67	1921.....	30 25	43 58	35 77	150
1894.....	12 70	18 57	14 60	61	1922.....	29 31	42 09	34 91	146
1895.....	12 75	18 74	14 69	62	1923.....	33 09	46 74	39 64	166
1898.....	13 29	19 16	15 58	65	1924.....	33 34	47 22	39 67	166
1899.....	13 90	19 97	16 34	68	1925.....	33 88	47 80	40 12	168
1902.....	15 51	22 13	18 12	76	1926.....	34 66	48 86	40 92	171
1906.....	18 73	26 19	21 92	92	1927.....	34 58	48 63	40 20	170
1909.....	20 48	28 09	23 00	96	1928.....	34 66	48 65	40 44	169

Basis of rate and division	1927				1928				1929	
	Jan 1	Apr 1	July 1	Oct. 1	Jan 1	Apr 1	July 1	Oct 1	Jan 1	Apr 1
PER MONTH, WITH BOARD										
United States.....	\$32 94	\$34 53	\$35 59	\$35 68	\$32 50	\$34 46	\$35 39	\$35 75	\$33 04	\$34 68
North Atlantic States.....	44 42	47 21	47 65	47 01	43 33	45 05	46 71	46 58	43 48	46 12
North Central States.....	37 12	41 30	42 97	42 47	36 38	41 38	42 99	42 73	37 49	41 81
South Atlantic States.....	25 55	25 24	25 53	25 77	25 40	24 89	25 38	25 43	24 47	24 20
South Central States.....	24 72	24 46	25 38	25 57	24 68	24 88	25 09	26 57	25 26	25 00
Western States.....	53 36	52 55	54 39	56 39	49 57	53 10	53 64	54 21	51 54	53 94
PER MONTH, WITHOUT BOARD										
United States.....	47.07	48 47	49 52	49 77	46 75	48 44	49 32	49 60	47 24	49 00
North Atlantic States.....	67 30	69 43	69 91	69 03	66 36	67 43	68 60	68 71	66 22	68 74
North Central States.....	52 18	55 19	56 65	56 67	50 81	55 66	56 18	56 96	51 74	56 44
South Atlantic States.....	35 66	36 24	36 87	36 44	36 36	35 20	36 22	35 78	35 18	35 10
South Central States.....	35 09	34 72	35 75	36 85	35 25	35 58	36 86	36 74	36 23	35 95
Western States.....	73 27	76 38	77 62	78 33	73 18	75 94	75 99	77 68	74 72	76 99
PER DAY, WITH BOARD										
United States.....	1 79	1 78	1 89	1 96	1 76	1 78	1 84	1 96	1 78	1 79
North Atlantic States.....	2 65	2 67	2 82	2 83	2 62	2 65	2 71	2 78	2 56	2 60
North Central States.....	2 15	2 27	2 32	2 47	2 12	2 18	2 26	2 48	2 17	2 21
South Atlantic States.....	1 35	1 33	1 36	1 35	1 31	1 31	1 33	1 38	1 29	1 28
South Central States.....	1 29	1 25	1 34	1 36	1 26	1 25	1 30	1 37	1 28	1 26
Western States.....	2 32	2 37	2 48	2 67	2 36	2 37	2 44	2 66	2 44	2 42
PER DAY, WITHOUT BOARD										
United States.....	2 36	2 37	2 44	2 51	2 34	2 34	2 39	2 51	2 34	2 34
North Atlantic States.....	3 41	3 47	3 61	3 62	3 42	3 40	3 48	3 58	3 42	3 44
North Central States.....	2 84	2 88	3 04	3 14	2 81	2 85	2 93	3 14	2 83	2 88
South Atlantic States.....	1 77	1 75	1 78	1 78	1 74	1 72	1 75	1 78	1 69	1 66
South Central States.....	1 69	1 66	1 67	1 75	1 66	1 64	1 68	1 74	1 68	1 65
Western States.....	3 18	3 23	3 29	3 45	3 18	3 20	3 28	3 44	3 24	3 21

<sup>1</sup> 1877 or 1878, 1878 or 1879 (combined)

Source Bureau of Agricultural Economics, Department of Agriculture



# No. 602.—FOREIGN TRADE IN AGRICULTURAL AND FOREST PRODUCTS: YEARS ENDED JUNE 30

[All figures, except percentages, in thousands of dollars]

Yearly average or year ended June 30—	Agricultural exports <sup>1</sup>			Agricultural imports <sup>1</sup>		Forest products		
	United States products		Foreign products (reex- ports)	Total	Per cent of all imports	Exports		Imports
	Total	Per cent of all exports <sup>2</sup>				United States products	Foreign products (reex- ports)	
1857-1861.....	215,709	81 1	10,174	121,998	38 5	9,995	962	5,962
1862-1866.....	148,866	75 7	9,288	123,639	43 5	7,366	798	7,094
1867-1871.....	250,713	76 9	8,538	182,756	43 0	11,775	691	11,831
1872-1876.....	396,666	78 5	8,853	268,481	47 4	17,907	960	14,403
1877-1881.....	591,351	80 4	8,632	273,780	51 8	17,679	553	14,610
1882-1886.....	557,473	76 3	9,340	324,607	48 8	24,705	1,417	21,854
1887-1891.....	573,287	74 7	6,982	381,967	50 3	26,061	1,443	24,690
1892-1896.....	638,748	73 0	8,446	415,975	53 9	28,276	1,707	27,448
1897-1901.....	827,566	65 9	10,962	403,705	53 8	45,961	3,283	25,172
1902-1906.....	975,541	59 5	11,922	526,806	50 0	63,585	3,850	40,960
1907-1911.....	875,399	53 9	12,126	705,800	50 2	88,764	6,483	65,822
1912-1916.....	1,256,452	45 1	24,275	1,028,629	55 7	92,129	5,563	81,467
1917-1921.....	2,859,558	42 7	78,068	2,164,337	61 5	120,260	8,415	168,982
1922-1926.....	1,950,850	45 9	48,810	1,981,467	54 3	141,078	11,711	214,824
1908.....	1,017,396	55 5	10,299	577,720	48 4	90,362	4,570	59,703
1909.....	903,238	55 1	9,585	701,780	53 5	72,442	4,983	60,753
1910.....	871,158	50 9	14,470	791,372	50 8	85,030	9,802	75,009
1911.....	1,030,794	51 2	14,665	770,781	50 5	103,039	7,587	71,736
1912.....	1,050,627	48 4	12,108	886,399	53 6	108,122	6,413	69,581
1913.....	1,123,652	46 3	15,029	912,925	50 4	124,836	7,432	82,878
1914.....	1,113,974	47 8	17,729	998,346	52 7	106,979	4,518	81,162
1915.....	1,475,938	54 3	34,420	997,184	59 6	52,554	5,089	79,451
1916.....	1,518,071	35 5	42,088	1,348,291	61 3	68,155	4,364	94,265
1917.....	1,968,253	31 6	37,640	1,598,091	60 1	68,919	11,172	129,580
1918.....	2,280,466	39 1	39,553	1,825,417	62 0	87,181	6,066	128,490
1919.....	3,579,918	50 6	103,530	1,929,384	62 3	113,275	6,006	132,588
1920.....	3,861,511	48 6	122,598	3,408,977	65 1	190,049	11,026	229,092
1921.....	2,607,641	40 8	87,019	2,059,816	56 4	141,876	7,805	228,162
1922.....	1,915,866	51 8	40,783	1,371,510	52 6	94,115	5,120	156,844
1923.....	1,799,163	46 3	43,359	2,076,371	54 9	129,982	6,969	234,599
1924.....	1,867,098	44 2	57,640	1,874,622	52 7	162,374	6,642	216,711
1925.....	2,280,381	47 7	53,826	2,056,619	53 8	156,187	11,633	227,423
1926.....	1,891,739	40 7	48,440	2,528,213	56 6	162,731	28,172	238,545
1927.....	1,907,864	39 2	50,534	2,280,340	53 6	171,970	23,053	238,247
1928 <sup>3</sup> .....	1,815,504	38 0	50,232	2,192,404	52 9	175,352	24,687	215,766

<sup>1</sup> Does not include forest products but includes agricultural imports of crude rubber and similar gums.<sup>2</sup> Based on total exports of United States merchandise<sup>3</sup> Preliminary.

Source: Bureau of Agricultural Economics, Department of Agriculture, and Bureau of Foreign and Domestic Commerce and predecessor organizations

## No. 603.—VALUE OF AGRICULTURAL EXPORTS: BY MAJOR GROUPS

NOTE.—In millions and tenths of millions of dollars Excludes reexports of foreign products

Yearly average or year (calendar)	Total agricul- tural exports	Animals and prod- ucts, edible	Dairy prod- ucts and eggs	Grains and prepara- tions	Vege- tables, fruits, and nuts	Miscel- laneous animal and vegetable products	Cotton	To- bacco
1910-1914 (fiscal).....	1,035 7	151 8	6 3	147 3	35 0	98 7	551 9	44 8
1913.....	1,143 3	158 8	6 9	197 4	40 5	111 2	575 5	52 9
1920.....	3,452 3	472 8	96 7	1,085 9	117 9	296 9	1,136 4	245 5
1921.....	2,114 9	309 1	56 3	758 4	90 4	161 4	534 2	205 1
1922.....	1,884 4	262 2	34 9	516 0	93 6	158 1	673 3	146 5
1923.....	1,820 5	309 6	36 4	311 4	87 7	115 0	807 1	153 4
1924.....	2,110 1	275 5	35 7	433 8	117 1	133 3	960 6	164 1
1925.....	2,136 2	271 3	31 1	351 8	121 1	147 3	1,069 8	153 8
1926.....	1,616 7	238 2	26 8	355 7	132 6	112 1	814 4	136 9
1927.....	1,884 6	182 6	25 3	443 8	143 6	123 4	826 3	139 7
1928.....	1,863 2	182 9	24 7	315 7	152 0	113 4	920 0	154 5

Source: Bureau of Foreign and Domestic Commerce, Department of Commerce.

**No. 604.—VALUE OF EXPORTS OF PRINCIPAL AGRICULTURAL PRODUCTS OR GROUPS OF PRODUCTS**

NOTE.—In millions and tenths of millions of dollars. Data except as stated are for calendar years and exclude reexports of foreign products

Products	1910-1914 (fiscal)	1919	1922	1923	1924	1925	1926	1927	1928
Grand total.....	1, 035 7	4, 096 0	1, 884. 4	1, 820 5	2, 110 1	2, 136. 2	1, 816 7	1, 884 6	1, 863 2
Live animals.....	13 0	12 0	11 4	6 3	6 1	8 5	5 5	6 7	6 5
Meats.....	62 7	690 9	134 5	149 4	113 4	117 9	98 7	64 2	60 9
Eggs and dairy products.....	6 3	168 5	34 9	36 4	35 7	31 1	26 8	25 3	24 7
Animal fats and oils.....	83 8	326 3	118 2	158 5	159 0	150 3	136 2	116 8	119 4
Hides and skins.....	3 2	10 9	4 0	4 9	12 8	12 0	10 8	11 5	11 1
Bread grains <sup>1</sup> .....	107 6	727 1	339 8	236. 1	371 5	275 2	300. 5	367 9	214 5
Coarse grains.....	36 8	165 2	159. 8	61 1	54 5	72 7	50 0	63 8	87 6
Rice.....	6	34 8	15 5	12 9	7 0	3 3	4 9	11 8	13 2
Fodders and feeds.....	28 1	38 1	22 4	21 7	29 4	33 8	28 2	32 9	30 9
Vegetables.....	5 8	45 8	15 3	16 4	16 8	16 2	17 8	18 6	20 6
Fruits.....	29 4	122. 7	74. 4	67 5	96. 5	100 7	110 3	120 1	127 8
Vegetable oils, expressed, oil-seeds, and nuts.....	21 2	102. 1	15 8	11. 9	10 9	14. 1	11. 0	13 4	12. 7
Coffee and substitutes.....	7 3	8 8	5 5	5 7	7. 5	8 0	9 2	6 3	3. 5
Sugar and related products.....	9 5	143 4	77. 3	36 1	32 8	36 1	14 6	17 3	16 0
Seeds, except oilseeds.....	2 6	8 3	4 4	3 3	3 3	3 5	4 0	3 6	2 7
Tobacco.....	44 8	260 0	146 5	153 4	164 1	153 8	136 9	139 7	154 5
Cotton.....	551 9	1, 137 4	673 3	807 1	950 6	1, 059 8	814. 4	826 3	920 0
Wool and hair.....	1 3	3 8	1 2	1 5	1 9	2 4	2 0	2 7	2 5
All other.....	19 9	89 9	30 2	30 3	36 3	36 8	34 9	35 7	34. 1

<sup>1</sup> Includes wheat and rye, also flour and flour products

**No. 605.—AGRICULTURAL EXPORT INDEXES: QUANTITY, PRICE, AND VALUE**

Yearly average or year	Agricultural exports, other than cotton and tobacco			Cotton			Tobacco		
	Quantity	Price	Value	Quantity	Price	Value	Quantity	Price	Value
1910-1914.....	100	100	100	100	100	100	100	100	100
1919.....	254	242	615	76	270	206	197	294	581
1920.....	195	242	472	72	287	206	120	455	548
1921.....	218	144	313	75	129	97	133	345	458
1922.....	195	125	242	71	173	122	111	295	327
1923.....	155	127	196	62	237	146	123	278	343
1924.....	169	134	227	78	222	172	147	249	366
1925.....	134	157	210	98	196	192	135	255	343
1926.....	137	144	197	105	141	148	136	226	306
1927.....	151	138	209	108	139	150	143	219	312
1928.....	136	132	180	102	164	167	184	188	345

**No. 606.—AGRICULTURAL EXPORT INDEXES: BY GROUPS OF PRODUCTS**

Group	Relative numbers, 1928, as compared with 1927 as 100			Relative numbers, 1928, as compared with 1910-1914 as 100		
	Quantity	Price	Value	Quantity	Price	Value
Total agricultural exports other than cotton and tobacco.....	90	95	86	136	132	180
Animal products, edible.....	105	96	100	95	126	120
Dairy products and eggs.....	95	104	98	249	158	394
Grains and preparations.....	77	92	71	160	134	214
Vegetables, fruits, and nuts.....	108	98	106	317	137	434
Cotton.....	94	118	111	103	161	167
Tobacco.....	129	86	111	-----	-----	-----

Source of Tables 604, 605, and 606 Bureau of Foreign and Domestic Commerce, Department of Commerce.

## 27.—FARM ANIMALS AND ANIMAL PRODUCTS

[Data in this section relate to continental United States]

### No. 607.—DOMESTIC ANIMALS: NUMBER AND VALUE OF ANIMALS ON FARMS

NOTE.—For 1880, 1890, 1900, 1910, 1920, and 1925 census enumerations; for other years estimates of the Department of Agriculture. Data are for Jan. 1 except as indicated; the difference in date affects the comparability of the figures for all classes and especially for swine. Animals of all ages are included. Value excludes asses and burros and goats

Jan. 1—	Number (thousands)							Value of all animals (thousands of dollars)
	Horses	Mules	All cattle	Dairy cows <sup>1</sup>	Other cattle	Sheep	Swine	
1880 (June 1, census)	10,357	1,813	39,676	12,443	27,232	42,192	49,773	-----
1890 (June 1, census)	15,266	2,252	57,649	16,512	41,137	40,876	57,427	-----
1900 (June 1, census)	18,267	3,265	67,719	17,136	50,584	61,504	62,868	2,970,121
1905	17,058	2,889	61,241	17,572	43,669	45,170	47,321	3,006,581
1907	19,747	3,817	72,534	20,968	51,566	53,240	54,794	4,423,698
1908	19,992	3,869	71,267	21,194	50,073	54,631	56,084	4,331,230
1909	20,640	4,053	71,099	21,720	49,379	56,084	54,147	4,525,259
1910 (Apr 15, census)	19,833	4,210	61,804	17,125	44,178	52,448	53,186	4,740,684
1911	20,217	4,323	60,502	20,822	39,679	53,633	55,620	5,276,438
1912	20,509	4,362	57,959	20,699	37,260	52,362	65,410	5,008,327
1913	20,567	4,386	56,527	20,497	36,030	51,482	61,178	5,501,783
1914	20,962	4,449	56,592	20,737	35,855	49,719	58,933	5,890,471
1915	21,195	4,479	58,329	21,262	37,067	49,956	64,618	5,969,253
1916	21,159	4,598	61,920	22,108	39,812	48,625	67,766	6,020,670
1917	21,210	4,722	64,583	22,894	41,689	47,616	67,503	6,735,612
1918	21,555	4,873	67,422	23,310	44,112	48,603	70,973	8,284,198
1919	21,482	4,954	68,560	23,475	45,085	48,866	74,584	8,827,894
1920 (census)	19,767	5,432	66,640	19,675	46,964	35,034	59,346	7,596,877
1921	19,134	5,686	67,184	21,408	45,776	38,690	58,711	6,053,128
1922	18,564	5,688	67,264	21,788	45,476	36,186	59,355	4,758,238
1923	17,943	5,702	66,156	22,063	44,093	36,212	68,447	5,048,009
1924	17,222	5,730	64,507	22,255	42,262	36,876	65,937	4,748,686
1925 (census)	16,401	5,681	60,760	17,645	43,115	35,590	50,854	4,439,966
1926	15,830	5,740	59,122	22,188	36,934	39,730	52,148	5,003,301
1927	15,133	5,652	56,832	21,801	35,031	41,881	54,788	5,033,321
1928	14,540	5,632	55,681	21,824	33,857	44,554	60,420	5,512,508
1929	14,029	5,447	55,751	21,820	33,931	47,171	54,956	5,952,118

<sup>1</sup> Cows 2 years and over kept for milk Jan 1, 1910, estimated Census reported dairy cows and heifers born before Jan 1, 1909, as 20,625,432

### No. 608.—DOMESTIC ANIMALS IN THE UNITED STATES: NUMBER ON FARMS AND NOT ON FARMS, AND VALUE OF THOSE ON FARMS

NOTE.—By reason of the change in date of enumeration from Apr 15 in 1910 to Jan. 1 in 1920 and 1925, the earlier figures are not very closely comparable

Kind	Total number (thousands)		On farms							Not on farms, number (thousands)	
			Number (thousands)			Value (thousands of dollars)					
	1910 (Apr. 15)	1920 (Jan. 1)	1910 (Apr. 15)	1920 (Jan. 1)	1925 (Jan. 1)	1910 (Apr. 15)	1920 (Jan. 1)	1925 (Jan. 1)	1910 (Apr. 15)	1920 (Jan. 1)	
All domestic animals						4,780,060	7,622,641	4,450,216			
All cattle	63,683	68,751	61,804	66,640	60,760	1,499,524	3,651,521	2,019,489	1,879	2,112	
Dairy cows	21,796	20,896	20,625	19,675	17,645	706,236	1,507,513	912,532	1,170	1,221	
Horses, mules, asses, and burros	27,618	27,371	24,149	25,272	22,082	2,622,180	2,569,570	1,451,041	3,470	2,099	
Horses	23,016	21,473	19,833	19,767	16,401	2,083,588	1,782,077	1,001,521	3,183	1,706	
Mules	4,480	5,811	4,210	5,432	5,681	525,392	779,294	449,520	270	378	
Asses and burros	122	87	106	72	(3)	13,200	8,198	(4)	17	15	
Sheep	52,839	35,484	52,448	35,034	35,590	232,842	395,401	354,485	391	450	
Goats	3,030	3,564	2,915	3,459	3,370	8,176	17,565	10,250	115	106	
Swine	59,474	61,985	58,186	59,346	50,854	399,338	988,582	614,951	1,288	2,638	

<sup>1</sup> Exclusive of asses and burros

<sup>2</sup> Figures for 1920 and 1925 represent dairy cows and heifers 2 years old and over; those for 1910 include dairy cows and heifers born before Jan 1, 1909

<sup>3</sup> Not reported.

Source Bureau of the Census, Department of Commerce

## No. 609.—DOMESTIC ANIMALS: NUMBER ON

NOTE.—By reason of the change in date of census enumeration from Apr. 15,

[All figures in thousands]

Division and State	Horses				Mules				All cattle			
	1910 (Apr 15)	1920 (Jan. 1)	1925 (Jan 1)	1929 (Jan 1)	1910 (Apr 15)	1920 (Jan 1)	1925 (Jan 1)	1929 (Jan 1)	1910 (Apr 15)	1920 (Jan 1)	1925 (Jan 1)	1929 (Jan 1)
United States.....	19,833	19,787	16,401	14,029	4,210	5,432	5,681	5,447	61,804	66,640	60,760	55,751
New England.....	355	305	259	215	2	3	3	(2)	1,337	1,320	1,119	1,120
Maine.....	108	94	82	72	(2)	(2)	1	(2)	267	301	228	228
New Hampshire.....	46	38	31	24	(2)	(2)	(2)	(2)	168	164	121	115
Vermont.....	81	77	63	53	(2)	1	1	(2)	430	435	393	422
Massachusetts.....	64	51	44	35	(2)	(2)	1	(2)	252	216	188	183
Rhode Island.....	10	7	5	4	(2)	(2)	1	(2)	34	31	27	28
Connecticut.....	46	38	34	27	(2)	1	1	(2)	195	174	153	144
Middle Atlantic.....	1,230	1,115	907	781	52	68	65	62	4,233	3,869	3,309	3,430
New York.....	591	536	440	382	4	7	7	6	2,423	2,144	1,837	1,895
New Jersey.....	89	73	57	50	4	6	5	5	223	179	153	163
Pennsylvania.....	550	506	410	349	44	55	53	51	1,587	1,546	1,319	1,372
East North Central.....	4,401	4,114	3,303	2,829	259	310	315	291	9,819	10,898	9,656	9,182
Ohio.....	910	811	630	520	23	32	33	32	1,838	1,927	1,653	1,640
Indiana.....	814	717	556	517	82	100	101	101	1,363	1,546	1,282	1,307
Illinois.....	1,453	1,297	1,030	839	148	168	168	144	2,441	2,788	2,305	1,967
Michigan.....	610	606	482	409	4	6	7	7	1,498	1,586	1,406	1,406
Wisconsin.....	615	683	604	544	3	4	6	7	2,680	3,051	3,010	2,862
West North Central.....	6,794	6,942	5,988	5,119	716	847	892	756	17,648	20,183	19,204	16,936
Minnesota.....	753	933	835	787	6	10	13	14	2,347	3,021	2,853	2,737
Iowa.....	1,492	1,387	1,180	1,046	56	82	97	93	4,448	4,548	4,264	3,845
Missouri.....	1,073	906	708	574	343	389	372	313	2,561	2,782	2,372	2,109
North Dakota.....	651	856	731	589	8	8	9	10	744	1,335	1,341	1,078
South Dakota.....	669	817	720	593	12	15	21	22	1,535	2,348	2,022	1,570
Nebraska.....	1,008	961	862	764	83	100	120	106	2,932	3,154	3,283	2,766
Kansas.....	1,147	1,083	931	766	208	243	260	198	3,079	2,975	3,068	2,831
South Atlantic.....	1,111	1,039	806	640	749	1,079	1,023	998	4,839	4,703	4,135	3,672
Delaware.....	33	28	22	19	6	9	9	9	55	47	46	50
Maryland.....	155	141	117	97	23	33	31	28	288	283	273	288
Dist of Columbia.....	1	(2)	(2)	(2)	(2)	(2)	(2)	(2)	1	1	1	(3)
Virginia.....	330	312	260	198	60	97	102	105	859	910	807	765
West Virginia.....	180	169	143	124	12	15	15	15	620	587	568	496
North Carolina.....	186	171	131	98	175	257	280	276	701	645	539	505
South Carolina.....	80	78	49	40	155	220	199	177	390	434	341	272
Georgia.....	120	101	54	39	295	406	344	347	1,080	1,157	906	820
Florida.....	46	39	29	25	23	42	43	42	845	639	656	480
East South Central.....	1,145	1,046	768	645	1,004	1,250	1,277	1,276	3,943	4,547	3,686	3,469
Kentucky.....	443	382	307	278	225	293	294	292	1,001	1,098	905	955
Tennessee.....	350	318	242	202	276	353	352	321	997	1,159	986	977
Alabama.....	136	130	87	65	247	296	303	327	932	1,044	822	702
Mississippi.....	216	215	131	100	256	308	328	336	1,013	1,250	923	835
West South Central.....	2,349	2,180	1,760	1,534	1,286	1,685	1,893	1,860	10,721	10,108	9,009	8,687
Arkansas.....	255	252	182	136	222	323	341	339	1,028	1,073	810	772
Louisiana.....	181	179	131	102	132	180	173	167	805	804	697	585
Oklahoma.....	743	738	608	516	257	337	368	333	1,954	2,074	1,657	1,723
Texas.....	1,170	991	838	780	676	846	1,010	1,021	6,935	6,157	5,846	5,607
Mountain.....	1,427	2,076	1,850	1,613	49	89	112	105	6,061	7,800	7,406	6,086
Montana.....	316	669	594	515	4	9	10	11	1,269	1,269	1,322	1,103
Idaho.....	198	293	233	210	4	8	8	7	454	715	606	570
Wyoming.....	156	198	200	186	2	3	5	5	767	875	783	764
Colorado.....	294	421	365	308	15	31	38	32	1,128	1,757	1,436	1,317
New Mexico.....	180	183	187	163	15	20	31	30	1,082	1,300	1,267	1,017
Arizona.....	100	136	112	90	4	12	12	12	825	822	1,069	540
Utah.....	116	125	110	100	2	3	4	4	412	506	504	460
Nevada.....	68	50	50	41	3	2	4	4	450	356	419	315
Pacific.....	1,021	970	780	653	92	101	101	99	3,204	3,432	3,285	3,169
Washington.....	281	296	242	205	12	23	26	29	402	573	582	541
Oregon.....	272	272	224	181	10	14	19	19	725	851	784	673
California.....	469	402	314	267	70	63	56	51	2,077	2,008	1,918	1,955

<sup>1</sup> 1 year old and over Figures for 1910 are number reported as living Apr 15, 1910, which had been born before Jan 1, 1909, that is, 15½ months old and over on Apr 15, or 1 year old and over on Jan 1, 1910

## FARMS, BY DIVISIONS AND STATES, 1910 TO 1928

1910, to Jan. 1 in 1920 and 1925, the 1910 figures are not very closely comparable

[All figures in thousands]

Dairy cows <sup>1</sup>				Sheep				Swine				Division and State
1910	1920 (Jan. 1)	1925 (Jan. 1)	1928	1910 (Apr. 15)	1920 (Jan. 1)	1925 (Jan. 1)	1928 (Jan. 1)	1910 (Apr. 15)	1920 (Jan. 1)	1925 (Jan. 1)	1928 (Jan. 1)	
20,625	23,724	20,714	26,197	52,448	35,034	35,580	47,171	58,186	59,346	50,854	54,956	U. S.
842	1,016	920	902	431	243	154	180	397	384	193	259	N. Eng.
157	217	181	173	206	119	85	93	87	91	54	60	Me
101	119	97	90	44	28	16	21	45	42	16	30	N. H.
265	346	325	341	119	63	35	45	95	73	44	50	Vt.
172	174	164	152	33	19	10	11	103	104	58	92	Mass.
23	25	24	24	7	3	2	2	14	13	4	5	R. I.
123	135	129	122	22	11	7	8	52	61	17	22	Conn.
2,598	2,928	2,670	2,695	1,844	1,098	893	899	1,791	1,831	1,050	1,059	Mid. Atl.
1,510	1,730	1,552	1,552	930	579	473	452	666	601	259	290	N. Y.
154	148	135	139	31	10	6	6	147	139	56	54	N. J.
934	1,050	983	1,004	883	509	415	441	978	1,191	734	715	Pa.
4,830	6,082	5,877	6,358	9,542	5,073	4,479	5,374	14,461	14,183	11,774	11,873	E. N. C.
905	1,059	968	1,096	3,909	2,103	1,941	2,154	3,106	3,084	2,368	2,146	Ohio
634	727	691	828	1,337	644	595	726	3,614	3,757	2,939	2,904	Ind.
1,050	1,148	969	1,129	1,060	638	566	664	4,686	4,639	4,249	4,671	Ill.
767	967	944	1,006	2,306	1,209	1,066	1,380	1,246	1,106	855	690	Mich.
1,474	2,180	2,304	2,299	930	480	310	450	1,809	1,596	1,363	1,462	Wis.
5,398	5,485	4,403	7,139	5,065	4,950	4,007	5,829	21,282	21,715	24,600	28,180	W. N. C.
1,085	1,532	1,565	1,820	638	509	379	686	1,520	2,381	2,715	3,302	Minn.
1,407	1,094	822	1,564	1,146	1,092	818	1,096	7,546	7,864	8,567	10,246	Iowa
856	793	617	979	1,811	1,272	894	987	4,438	3,889	3,502	4,070	Mo
259	461	385	559	293	299	311	582	332	458	784	587	N. Dak.
370	406	292	646	611	844	644	890	1,010	1,954	2,600	2,536	S. Dak.
614	517	268	739	294	573	647	1,050	3,436	3,436	4,236	4,888	Nebr
736	681	454	832	272	361	315	538	3,000	1,733	2,197	2,531	Kans.
1,811	2,012	1,549	1,978	2,514	1,209	1,077	1,383	5,964	6,536	4,176	4,074	S. Atl.
36	38	39	42	8	3	2	2	49	39	24	24	Del.
167	189	196	214	237	103	92	108	302	306	188	199	Md.
1	1	1	( <sup>2</sup> )	-----	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	1	1	1	( <sup>2</sup> )	D. C.
356	418	329	438	805	342	351	469	798	941	582	578	Va
240	210	154	264	910	510	441	593	328	305	177	197	W. Va.
309	355	292	346	214	91	67	89	1,228	1,271	872	874	N. C.
181	229	178	173	38	24	14	15	665	845	535	458	S. C.
406	484	308	420	188	72	51	48	1,784	2,071	1,300	1,228	Ga
116	90	52	91	114	65	60	59	810	755	498	516	Fla.
1,628	2,031	1,593	2,072	2,496	1,318	1,155	1,465	5,439	6,207	3,453	3,301	E. S. C.
410	515	433	562	1,303	708	696	996	1,492	1,504	919	826	Ky
397	495	416	581	795	364	290	352	1,388	1,832	1,009	872	Tenn.
392	491	363	444	143	82	56	79	1,267	1,497	827	874	Ala.
430	530	381	485	195	164	114	38	1,292	1,373	698	729	Miss.
2,250	2,298	1,730	2,589	2,194	2,909	3,359	5,319	7,022	5,758	3,451	3,598	W. S. C.
426	517	325	474	144	100	51	50	1,519	1,378	847	885	Ark
279	218	116	250	178	130	109	110	1,328	851	518	437	La
531	560	429	726	62	105	62	107	1,839	1,304	920	994	Okla.
1,014	1,002	860	1,139	1,809	2,573	3,137	5,052	2,336	2,226	1,166	1,210	Tex.
514	754	723	1,084	22,770	13,207	15,130	19,801	641	1,193	1,311	1,564	Mountain.
78	153	122	214	5,351	2,083	2,168	3,761	99	107	278	328	Mont.
86	143	171	216	3,010	2,366	1,746	2,216	178	240	276	313	Idaho.
33	42	39	87	5,397	1,860	2,507	3,448	84	72	100	149	Wyo
145	224	192	295	1,426	1,813	2,244	2,780	179	450	493	550	Colo
51	46	47	79	3,347	1,640	1,743	2,362	45	88	55	73	N. Mex.
29	39	41	45	1,227	882	1,164	1,109	17	50	19	19	Ariz
76	81	88	122	1,827	1,692	2,355	2,866	64	99	64	98	Utah.
17	16	23	26	1,155	881	1,184	1,259	23	27	25	29	Nev.
826	1,120	1,249	1,380	5,592	5,028	5,338	6,921	1,190	1,441	845	1,140	Pacific
186	290	319	340	476	624	516	574	206	265	194	214	Wash
173	216	245	262	2,699	2,002	1,775	2,501	218	267	216	256	Oreg
467	614	685	778	2,417	2,400	3,045	3,846	767	909	431	670	Calif.

<sup>1</sup> Less than 500.<sup>2</sup> No estimate.

Source 1910, 1920, and 1925, Bureau of the Census, Department of Commerce; 1929, Department of Agriculture.

## FARMS, BY DIVISIONS AND STATES, 1910 TO 1928

1910, to Jan. 1 in 1920 and 1925, the 1910 figures are not very closely comparable

[All figures in thousands]

Dairy cows <sup>1</sup>				Sheep				Swine				Division and State
1910	1920 (Jan. 1)	1925 (Jan. 1)	1929	1910 (Apr. 15)	1920 (Jan. 1)	1925 (Jan. 1)	1929 (Jan. 1)	1910 (Apr. 15)	* 1920 (Jan. 1)	1925 (Jan. 1)	1929 (Jan. 1)	
20, 625	23, 724	20, 714	26, 197	52, 448	35, 034	35, 590	47, 171	58, 186	59, 346	50, 854	54, 956	U. S.
842	1, 016	920	902	431	243	154	180	397	384	193	259	N. Eng.
157	217	181	173	206	119	85	93	87	91	54	60	Me
101	119	97	90	44	28	16	21	45	42	16	30	N. H.
265	346	325	341	119	63	35	45	95	73	44	50	Vt.
172	174	164	152	33	19	10	11	103	104	58	92	Mass.
23	25	24	24	7	3	2	2	14	13	4	5	R. I.
123	135	129	122	22	11	7	8	52	61	17	22	Conn.
2, 598	2, 928	2, 670	2, 695	1, 844	1, 098	893	899	1, 791	1, 931	1, 050	1, 059	Mid. Atl.
1, 510	1, 730	1, 552	1, 552	930	579	473	452	666	601	289	290	N. Y.
154	148	135	139	31	10	6	6	147	139	56	54	N. J.
934	1, 050	983	1, 004	883	509	415	441	978	1, 181	734	715	Pa.
4, 830	6, 082	5, 877	6, 358	9, 542	5, 073	4, 479	5, 374	14, 461	14, 183	11, 774	11, 873	E. N. C.
905	1, 059	968	1, 096	3, 909	2, 103	1, 941	2, 154	3, 106	3, 084	2, 368	2, 146	Ohio
634	727	691	828	1, 337	644	595	726	3, 614	3, 757	2, 939	2, 904	Ind.
1, 050	1, 148	969	1, 129	1, 060	638	566	664	4, 686	4, 639	4, 249	4, 671	Ill.
767	967	944	1, 006	2, 306	1, 209	1, 066	1, 380	1, 246	1, 106	855	690	Mich.
1, 474	2, 180	2, 304	2, 299	930	480	310	450	1, 809	1, 596	1, 363	1, 462	Wis.
5, 328	5, 485	4, 403	7, 139	5, 065	4, 950	4, 007	5, 829	21, 282	21, 715	24, 600	28, 180	W. N. C.
1, 085	1, 532	1, 565	1, 820	638	509	379	686	1, 520	2, 381	2, 715	3, 302	Minn.
1, 407	1, 094	822	1, 564	1, 146	1, 092	818	1, 096	7, 546	7, 864	8, 567	10, 246	Iowa
856	793	617	979	1, 811	1, 272	894	987	4, 438	3, 889	3, 502	4, 070	Mo.
259	461	385	559	293	299	311	582	332	458	784	587	N. Dak.
370	406	292	646	611	844	644	890	1, 010	1, 954	2, 600	2, 536	S. Dak.
614	517	268	739	294	573	647	1, 050	3, 436	3, 436	4, 236	4, 888	Nebr.
736	681	454	832	272	361	315	538	3, 000	1, 733	2, 197	2, 531	Kans.
1, 811	2, 012	1, 549	1, 978	2, 514	1, 209	1, 077	1, 383	5, 964	6, 536	4, 176	4, 074	S. Atl.
36	38	39	42	8	3	2	2	49	39	24	24	Del.
167	189	196	214	237	103	92	108	302	306	188	199	D. C.
1	1	1	( <sup>2</sup> )	-----	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	1	1	1	( <sup>2</sup> )	D. C.
356	418	329	438	805	342	351	469	798	941	582	578	Va
240	210	154	254	910	510	441	593	328	305	177	197	W. Va.
309	355	292	346	214	91	67	89	1, 228	1, 271	872	874	N. C.
181	229	178	173	38	24	14	15	665	845	535	458	S. C.
406	454	308	420	188	72	51	48	1, 784	2, 071	1, 300	1, 228	Ga
116	90	52	91	114	65	60	59	810	755	498	516	Fla.
1, 628	2, 031	1, 593	2, 072	2, 496	1, 318	1, 155	1, 465	5, 439	6, 207	3, 463	3, 301	E. S. C.
410	515	433	562	1, 303	708	696	996	1, 492	1, 504	919	826	Ky
397	495	416	581	795	364	290	352	1, 388	1, 832	1, 009	872	Tenn.
392	491	363	444	143	82	56	79	1, 267	1, 497	827	874	Ala.
430	530	381	485	195	164	114	38	1, 292	1, 373	698	729	Miss.
2, 250	2, 298	1, 730	2, 589	2, 194	2, 909	3, 359	5, 319	7, 022	5, 758	3, 451	3, 598	W. S. C.
426	517	325	474	144	100	51	50	1, 519	1, 378	847	885	Ark
279	218	116	250	178	130	109	110	1, 328	851	518	437	La
531	560	429	726	62	105	62	107	1, 839	1, 304	920	994	Okla.
1, 014	1, 002	860	1, 139	1, 809	2, 573	3, 137	5, 052	2, 336	2, 226	1, 166	1, 210	Tex.
514	754	723	1, 084	22, 770	13, 207	15, 130	18, 801	641	1, 193	1, 311	1, 564	Mountain.
78	153	122	214	5, 381	2, 083	2, 188	3, 761	99	167	278	328	Mont.
86	143	171	216	3, 010	2, 356	1, 746	2, 216	178	240	276	318	Idaho.
33	42	39	87	5, 397	1, 860	2, 507	3, 443	34	72	100	149	Wyo
145	234	192	295	1, 426	1, 813	2, 244	2, 780	179	450	493	550	Colo
51	46	47	79	3, 347	1, 640	1, 743	2, 362	45	88	55	73	N. Mex.
29	39	41	45	1, 227	882	1, 164	1, 109	17	50	19	19	Ariz
76	81	88	122	1, 827	1, 692	2, 355	2, 866	64	99	64	98	Utah
17	16	23	26	1, 155	881	1, 184	1, 259	23	27	25	29	Nev.
828	1, 120	1, 249	1, 380	5, 592	5, 028	5, 338	6, 921	1, 190	1, 441	845	1, 140	Pacific
186	290	319	340	476	624	516	574	206	265	198	214	Wash
173	216	245	262	2, 699	2, 002	1, 775	2, 501	218	267	216	256	Oreg
467	614	685	778	2, 417	2, 400	3, 045	3, 846	767	909	431	670	Calif.

<sup>2</sup> Less than 500.<sup>3</sup> No estimate.

Source 1910, 1920, and 1925, Bureau of the Census, Department of Commerce; 1929, Department of Agriculture.

**No. 612.—DOMESTIC ANIMALS: RECEIPTS AND SHIPMENTS AT ALL REPORTING MARKETS AND PRINCIPAL INDIVIDUAL MARKETS**

[All figures in thousands]

Item and yearly average or year	Chicago	Denver	East St. Louis	Fort Worth	Kansas City	Omaha	St. Joseph	St. Paul	Sioux City	Total, 9 markets	All other markets reporting <sup>1</sup>	Total, all markets reporting <sup>1</sup>
<b>CATTLE AND CALVES</b>												
<b>Receipts</b>												
1901-1905.....	3,486	279	1,069	508	2,226	974	543	335	365	9,785	-----	-----
1906-1910.....	3,565	376	1,170	1,039	2,570	1,125	613	514	409	11,381	-----	-----
1911-1915.....	2,957	416	1,081	1,046	2,151	1,062	451	607	443	10,214	-----	-----
1916-1920.....	3,924	685	1,368	1,421	2,828	1,745	683	1,286	739	14,679	7,893	22,572
1921-1925.....	3,862	595	1,341	1,218	2,932	1,709	676	1,316	772	14,430	8,366	22,796
1926.....	4,012	529	1,526	1,185	2,617	1,815	679	1,010	969	15,242	8,630	23,872
1927.....	3,583	640	1,448	1,286	2,470	1,661	641	1,532	809	14,020	8,744	22,764
1928.....	3,267	667	1,315	1,211	2,210	1,518	598	1,490	813	13,089	8,387	21,478
<b>Shipments</b>												
1901-1905.....	1,214	( <sup>1</sup> )	305	( <sup>1</sup> )	( <sup>1</sup> )	296	128	239	244	2,426	-----	-----
1906-1910.....	1,377	( <sup>1</sup> )	365	( <sup>1</sup> )	( <sup>1</sup> )	359	163	345	219	2,828	-----	-----
1911-1915.....	891	( <sup>1</sup> )	309	( <sup>1</sup> )	( <sup>1</sup> )	445	154	357	241	2,397	-----	-----
1916-1920.....	1,017	538	393	586	1,266	740	223	749	416	5,926	3,538	9,466
1921-1925.....	1,103	453	814	429	1,421	729	232	475	411	6,067	3,623	9,690
1926.....	1,061	370	994	423	1,139	650	186	612	448	5,883	3,521	9,404
1927.....	938	482	965	445	1,112	548	165	439	360	5,464	3,719	9,173
1928.....	763	505	920	470	1,155	614	189	423	409	5,448	3,563	9,011
<b>SHEEP</b>												
<b>Receipts</b>												
1901-1905.....	4,477	453	581	91	1,122	1,729	692	680	51	9,876	-----	-----
1906-1910.....	4,609	712	667	136	1,065	2,292	673	605	83	11,442	-----	-----
1911-1915.....	5,317	694	874	314	2,943	3,107	733	725	286	14,154	-----	-----
1916-1920.....	4,358	1,857	613	404	1,711	3,251	832	665	404	14,090	8,747	22,837
1921-1925.....	4,173	1,915	675	351	1,619	2,704	974	521	279	13,114	9,457	22,571
1926.....	4,405	1,826	636	445	1,762	2,780	1,303	773	449	14,379	9,489	23,868
1927.....	3,829	1,908	574	445	1,616	2,604	1,348	705	527	13,556	10,383	23,939
1928.....	3,868	2,295	510	458	1,767	3,037	1,580	891	508	14,974	10,623	25,597
<b>Shipments</b>												
1901-1905.....	1,063	( <sup>1</sup> )	83	( <sup>1</sup> )	( <sup>1</sup> )	831	188	522	25	2,712	-----	-----
1906-1910.....	1,228	( <sup>1</sup> )	102	( <sup>1</sup> )	( <sup>1</sup> )	1,190	156	469	40	3,135	-----	-----
1911-1915.....	1,088	( <sup>1</sup> )	78	( <sup>1</sup> )	( <sup>1</sup> )	1,412	183	534	76	3,371	-----	-----
1916-1920.....	1,076	1,684	98	232	658	1,703	233	472	181	6,347	5,804	11,911
1921-1925.....	1,306	1,746	215	215	516	1,129	228	205	90	5,650	5,999	11,649
1926.....	1,443	1,636	264	240	564	1,137	293	335	113	6,025	6,425	12,450
1927.....	1,038	1,720	206	221	492	1,114	303	261	162	5,507	6,975	12,482
1928.....	1,128	2,074	191	237	507	1,295	429	415	168	6,434	6,890	13,324
<b>SWINE</b>												
<b>Receipts</b>												
1901-1905.....	7,695	139	1,761	244	2,540	2,297	1,812	756	1,078	18,322	-----	-----
1906-1910.....	6,963	229	2,215	630	2,899	2,220	1,845	884	1,190	19,075	-----	-----
1911-1915.....	7,225	268	2,678	465	2,611	2,540	1,837	1,379	1,520	20,513	-----	-----
1916-1920.....	8,234	382	3,214	759	2,838	3,046	2,102	2,220	2,239	25,034	17,518	42,552
1921-1925.....	9,041	452	3,972	416	2,695	3,297	2,042	3,092	2,742	27,749	20,219	47,968
1926.....	7,093	497	3,536	217	2,036	2,647	1,462	3,451	2,475	23,414	16,358	39,772
1927.....	7,724	457	3,710	338	1,904	2,631	1,425	3,105	2,322	23,616	17,795	41,411
1928.....	8,539	567	4,036	432	2,391	3,179	1,724	2,902	2,754	26,524	20,003	46,527
<b>Shipments</b>												
1901-1905.....	1,489	( <sup>1</sup> )	324	( <sup>1</sup> )	( <sup>1</sup> )	131	98	48	340	2,430	-----	-----
1906-1910.....	1,638	( <sup>1</sup> )	711	( <sup>1</sup> )	( <sup>1</sup> )	218	68	135	198	2,968	-----	-----
1911-1915.....	1,439	( <sup>1</sup> )	891	( <sup>1</sup> )	( <sup>1</sup> )	393	121	424	419	3,687	-----	-----
1916-1920.....	1,271	26	1,244	139	478	754	201	827	884	5,824	7,894	13,718
1921-1925.....	2,355	77	2,559	72	772	797	437	680	1,076	8,795	8,336	17,130
1926.....	2,108	133	2,483	13	593	962	310	880	931	8,413	6,760	15,173
1927.....	2,113	124	2,624	21	510	698	297	927	693	8,007	7,086	15,043
1928.....	2,145	101	2,986	27	675	1,011	443	860	1,121	9,369	7,822	17,191
<b>HORSES AND MULES</b>												
<b>Receipts</b>												
1901-1905.....	109	18	145	13	75	45	25	9	14	453	-----	-----
1906-1910.....	99	14	129	21	65	38	26	8	16	416	-----	-----
1911-1915.....	112	28	182	49	86	34	36	7	14	548	-----	-----
1916-1920.....	98	26	236	76	98	25	35	10	22	626	568	1,194
1921-1925.....	26	25	79	36	36	12	13	4	12	243	206	449
1926.....	18	29	53	27	29	17	9	10	19	211	180	391
1927.....	16	27	69	43	44	16	8	11	13	247	202	449
1928.....	19	24	70	43	43	18	9	11	13	250	200	450

<sup>1</sup> Figures not available prior to 1915

<sup>2</sup> Total for about 70 markets

<sup>3</sup> Total of six markets.

Source: Bureau of Agricultural Economics, Department of Agriculture

## No. 613.—DOMESTIC ANIMALS: RECEIPTS AND SHIPMENTS AT NINE MARKETS

[All figures in thousands. Markets covered are those named in Table 612]

Year	Cattle and calves		Sheep		Swine		Horses and mules
	Receipts	Shipments	Receipts	Shipments	Receipts	Shipments	
1906	11,143	2,750	11,716	3,427	18,939	2,722	499
1907	11,564	2,966	10,742	2,965	19,251	3,014	413
1908	11,022	2,757	10,583	2,838	22,677	3,439	363
1909	11,504	2,784	11,046	2,522	18,926	3,197	393
1910	11,570	2,885	13,126	4,170	15,582	2,469	412
1911	10,790	2,724	14,327	3,713	20,720	3,229	515
1912	10,426	2,418	14,797	3,235	20,382	3,576	481
1913	10,329	2,484	14,986	3,947	20,576	3,815	482
1914	9,466	2,173	14,372	3,337	19,044	3,525	478
1915	10,057	4,081	12,288	4,050	21,840	4,784	780
1916	11,920	4,755	13,479	5,102	26,781	5,864	810
1917	15,034	5,812	12,484	5,955	22,360	5,473	756
1918	16,781	6,405	14,050	6,518	26,607	5,624	600
1919	15,932	6,713	16,847	7,850	26,237	5,817	557
1920	13,725	5,948	13,591	6,311	23,187	6,338	401
1921	12,150	5,350	13,580	5,297	22,798	6,983	186
1922	14,590	6,677	12,253	5,484	24,601	7,056	242
1923	15,013	6,484	13,192	5,879	32,320	9,597	302
1924	15,189	6,119	13,382	5,972	32,612	11,040	245
1925	15,206	5,709	13,167	5,615	26,415	9,300	242
1926	15,242	5,883	14,379	6,025	23,414	8,413	211
1927	14,020	5,454	13,556	5,507	23,616	8,007	247
1928	13,089	5,448	14,974	6,434	26,524	9,369	250

## No. 614.—DOMESTIC ANIMALS: RECEIPTS AND STOCKER AND FEEDER SHIPMENTS AT ALL PUBLIC MARKETS

[All figures in thousands]

Item	1916-1920, average	1921-1925, average	1923	1924	1925	1926	1927	1928
Cattle and calves:								
Receipts	22,570	22,796	23,211	23,695	24,067	23,872	22,763	21,478
Stocker and feeder shipments	4,610	4,144	4,553	3,978	3,823	3,712	3,615	3,966
Sheep:								
Receipts	22,837	22,572	22,025	22,201	22,100	23,868	23,939	25,597
Stocker and feeder shipments	5,014	4,150	4,478	4,676	4,332	4,623	4,902	5,011
Swine:								
Receipts	42,552	47,968	55,330	55,414	43,929	39,772	41,411	46,527
Stocker and feeder shipments	720	588	820	496	532	917	922	735

## No. 615.—DOMESTIC ANIMALS: RECEIPTS AT CHICAGO, EAST ST. LOUIS, KANSAS CITY, AND OMAHA, BY MONTHS

[All figures in thousands]

Class and yearly average or year	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Cattle and calves:													
1911-1915	7,251	602	462	509	489	433	511	537	659	814	905	679	601
1916-1920	9,866	804	627	643	634	653	655	756	864	1,080	1,214	1,086	841
1921-1925	9,835	778	608	691	664	725	710	755	953	1,051	1,203	919	777
1926	9,967	732	633	752	657	719	800	768	934	1,119	1,124	997	732
1927	9,067	756	619	686	611	764	697	628	922	823	1,062	862	637
1928	8,309	708	606	574	623	666	587	643	724	908	990	692	588
Sheep:													
1911-1915	11,342	893	764	788	725	668	689	767	1,002	1,572	1,654	978	842
1916-1920	9,929	740	616	616	556	551	611	762	1,056	1,488	1,306	858	769
1921-1925	9,068	751	636	704	643	647	645	696	899	1,130	1,032	616	669
1926	9,579	665	666	851	623	584	714	680	1,008	1,436	1,018	638	696
1927	8,625	699	595	641	545	669	651	624	933	1,114	922	570	662
1928	9,181	691	701	643	612	691	644	700	939	1,272	1,126	566	596
Swine:													
1911-1915	15,052	1,593	1,439	1,347	1,158	1,292	1,284	1,077	934	889	1,084	1,315	1,640
1916-1920	17,331	2,145	1,774	1,821	1,337	1,496	1,353	1,195	968	828	1,142	1,588	1,884
1921-1925	19,006	2,157	1,813	1,584	1,410	1,525	1,618	1,404	1,250	1,178	1,400	1,677	1,992
1926	15,310	1,615	1,324	1,446	1,219	1,214	1,265	1,152	1,173	1,047	1,076	1,325	1,454
1927	15,968	1,662	1,309	1,515	1,190	1,484	1,564	1,233	1,299	931	1,013	1,295	1,473
1928	18,145	2,047	2,179	1,883	1,257	1,475	1,458	1,220	1,079	1,001	1,312	1,390	1,844

Source of Tables 613, 614, and 615 Bureau of Agricultural Economics, Department of Agriculture.



**No. 616.—DOMESTIC ANIMALS: AVERAGE FARM PRICE AND AVERAGE CHICAGO MARKET PRICE<sup>1</sup> BY CALENDAR YEARS**

[Milk cows dollars per head; others in dollars per 100 pounds, live weight]

Yearly average or year	Milk cows on farms, per head	Beef cattle		Calves		Sheep		Lambs		Hogs	
		Farm	Chicago	Farm	Chicago	Farm	Chicago	Farm	Chicago	Farm	Chicago
1911-1915	52 33	5 55	7 89	7 09	9 30	4 60	5 13	6 01	7 57	6 88	7.60
1916-1920	79 47	8 42	12 91	11 05	14 35	8 97	10 25	11 85	15 05	13 26	14.78
1921-1925	56 29	5 66	9 13	8 11	9 78	6 35	7 02	10 10	13 53	8.32	9 04
1914	59 34	6 24	8 65	7 83	9 90	4 79	5 56	6 34	7 99	7.52	8.30
1915	58 25	6 01	8 40	7 63	10.15	5.27	6.36	6 86	9 05	6.56	7.10
1916	60 95	6 48	9 50	8 35	10 85	6 29	7.82	8 22	10 77	8 13	9 60
1917	71 86	8 47	11 40	10 51	13 75	9 45	11 04	12 31	15 68	13 46	15 10
1918	83 07	9 46	14 65	11 91	15 75	10 95	12 44	13 93	16 98	15 85	17 45
1919	91 96	9 61	15 50	12 76	16 83	9 63	10 47	12 96	16 31	16 02	17.85
1920	89 51	8 38	13 30	11 80	14 58	8 51	9.49	11 85	15 50	12 80	13 91
1921	59 10	5 44	8 20	7.81	9.36	4 65	5.13	7.10	9 86	7.81	8 51
1922	53 56	5 43	8 65	7 68	9 15	5 96	7.15	9.76	13 68	8.32	9 22
1923	55 43	5 57	9 40	7 99	9 66	6 65	7.10	10.50	13 89	7.11	7 55
1924	55 48	5 59	9 24	8 12	9 86	6 81	7 57	10 75	14 57	7 46	8 11
1925	57 87	6.26	10 16	8.85	10 87	7 70	8 16	12 30	15 66	10 88	11.81
1926	65 51	6 46	9 47	9 61	11 61	7 43	7 25	11 56	14 26	11.75	12 34
1927	74 19	7 54	11 36	10 16	12 90	7 26	7.04	11.41	14 12	9 67	9.95
1928	89 75	9 18	13 91	11.79	14 56	7 68	7.39	12 09	14.99	8.60	9.22

<sup>1</sup> Prices are weighted calendar year averages, except the averages for milk cows on farms and calves, sheep, and lambs at Chicago, which are simple averages

**No. 617.—DOMESTIC ANIMALS: MONTHLY AVERAGE PRICES AT CHICAGO**

[In dollars per 100 pounds, live weight]

Class and year	Jan	Feb.	Mar.	Apr	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec	Average <sup>1</sup>
<b>Beef steers.<sup>2</sup></b>													
1923	8.88	8 62	8 70	8 81	9 28	9 74	9 71	10 36	10 18	9 94	9 46	8 96	9 40
1924	8.99	8 81	9 17	9 52	9 59	9 28	9 31	9 53	9 52	9 57	8 90	8 71	9 24
1925	8.97	9 15	9 93	9 99	9 90	10 34	11 28	11 10	11 04	10 80	10 16	9 72	10 16
1926	9.48	9 42	9 42	9 11	9 07	9 51	9 44	9 30	10 00	10 00	9 48	9 43	9 47
1927	9.70	9 81	10 20	10 51	10 68	11 12	11 78	12 02	12 63	13 43	13 57	13 08	13 36
1928	13.67	13 15	12 83	13.01	13 19	13 86	15 11	15 30	15.91	14 61	13 84	12 86	13 91
<b>Calves</b>													
1923	10 08	10 63	9 32	8 68	9 51	9 31	10 14	10 36	10 57	9 82	8 15	9 31	9 66
1924	11 08	10 54	9 75	9 03	9 30	8 74	9 48	10 63	10 72	10 10	9 02	9 97	9 86
1925	10 72	11 94	11 24	9 49	9 42	9 56	10 91	11 94	12 18	11 19	10 60	11 30	10 87
1926	12 18	12 43	12 06	9 91	11 04	11 09	11 38	12 46	12 59	11 80	11 09	11 31	11 61
1927	12 20	12 40	11 54	10 90	11 07	11 68	13 32	14 75	15 94	14 42	13 48	13 09	12 90
1928	13 70	15 04	13 75	13 02	13 95	13 24	14 84	16 68	17 36	14 94	14 22	13 94	14 56
<b>Sheep</b>													
1923	7 72	8 08	8 64	8 90	6 74	5 00	5 16	7 09	7 25	6 35	6 89	7 37	7 10
1924	8 16	9 12	10 50	10 21	8 11	5 82	5 66	6 18	5 46	6 60	6 62	8 45	7 57
1925	10 33	9 69	9 22	7 84	7 96	6 25	7 48	6 83	6 95	7 64	8 16	9 57	8 16
1926	9 72	9 18	8 82	8 87	7 97	5 85	5 97	6 50	6 25	6 12	5 88	5 86	7 25
1927	6 94	8 03	8 88	9 62	7 44	5 88	6 25	6 47	6 14	6 00	6 40	6 41	7 04
1928	7 03	8 96	9 47	10 16	8 53	6 12	6 28	6 72	6 34	6 18	5 84	7 03	7 39
<b>Lambs</b>													
1923	14 69	14 85	14 56	14 42	14 12	14 81	14 22	12 89	13 52	12 93	12 75	12 96	13 89
1924	13 53	14 95	16 06	16 22	15 23	14 12	13 79	13 57	13 38	13 62	14 03	16 47	14 57
1925	13 28	17 59	16 28	14 85	13 06	15 86	15 11	14 88	15 19	15 20	15 44	16 15	15 66
1926	15 28	13 78	13 48	14 38	15 80	16 66	14 31	14 20	14 05	13 88	13 25	12 57	14 26
1927	12 64	13 28	15 27	15 87	14 75	15 66	14 25	13 68	13 46	13 70	13 80	13 14	14 12
1928	13 16	15 39	16 26	16 81	16 10	16 84	15 61	14 72	14 29	13 12	13 31	14 31	14 99
<b>Hogs</b>													
1923	8 29	8 02	8 18	8 08	7 53	6 92	7 04	7 65	8 35	7 42	6.85	6 87	7 55
1924	7 10	7 06	7 35	7 36	7 34	7 04	7 68	9 38	9 57	9 91	8 97	9 38	8 11
1925	10 38	11 06	13 55	12 55	12 06	12 57	13 46	12 66	12 52	11 31	11 28	10 97	11 81
1926	12 02	12 45	12 20	12 33	13 55	14 01	12 51	11 48	12 03	12 72	11 80	11 57	12 34
1927	11 96	11 73	11 28	10 69	9 69	8 78	9 05	9 03	10 22	10 39	8 92	8 32	9 95
1928	8 25	8 08	8 08	9 28	9 67	9 91	10 65	11 53	11 89	9 57	8 83	8 61	9 22

<sup>1</sup> Simple averages of monthly average prices, except the averages for beef steers and hogs, which are weighted averages

<sup>2</sup> Western steers not included.

Source of Tables 616 and 617. Bureau of Agricultural Economics, Department of Agriculture.

## No. 618.—WHOLESALE PRICES OF MEATS AND ANIMAL PRODUCTS

[All prices are in cents per pound except for eggs which are in cents per dozen and milk in cents per quart.  
Relative prices based on 1923-1925=100]

Yearly average or year	Beef, native sides, New York		Steers, good to choice, Chicago		Hams, smoked, Chicago		Pork, short, clear sides, Chicago		Lard, prime contract, New York		Hogs, heavy, Chicago		Mutton, dressed, New York	
	Price	Index	Price	Index	Price	Index	Price	Index	Price	Index	Price	Index	Price	Index
1891-1895-----	7 8	51 3	4.78	47 3	10 5	46 1	7 8	48 1	7 7	54 6	5 08	53 6	7 6	55 9
1896-1900-----	7 7	50 7	4 94	48 9	9 1	39 9	5 9	36 4	5 4	33 3	3 98	42 0	7 1	52 2
1901-1905-----	8 3	54 6	5 52	54 7	11 3	49 6	8 9	54 9	8 6	61 0	5 89	62 1	7 6	55 9
1906-1910-----	9 1	59 9	6 13	60 7	13 2	57 9	10 5	64 8	10 2	72 3	6 93	73 1	9 1	66 9
1911-1915-----	12 1	79 6	8 28	82 0	15 3	67 1	11 6	72 0	10 0	70 9	7 64	80 6	9 4	69 1
1916-1920-----	18 5	121 7	14 16	140 2	23 6	125 4	23 4	144 4	21 9	155 3	15 07	159 0	16 4	120 6
1921-1925-----	14 8	97 4	9 70	96 0	24 3	106 6	15 3	94 4	13 0	82 2	9 26	97 7	12 6	92 6
1923-1925-----	15 2	100 0	10 10	100 0	22 8	100 0	16 2	100 0	14 1	100 0	9 48	100 0	13 6	100 0
1924-----	15 1	99 3	9 67	95 7	20 2	88 6	14 4	88 9	13 3	94 3	8 49	89 6	14 5	106 6
1925-----	15 9	104 6	10 66	105 5	27 1	118 9	22 3	137 7	16 8	119 1	12 25	129 2	14 4	105 9
1926-----	15 1	99 3	9 53	94 4	30 8	135 1	20 1	124 1	15 0	106 4	12 34	130 2	14 4	105 9
1927-----	17 7	116 4	12 69	125 0	24 6	107 9	18 7	115 4	12 9	91 5	10 14	107 0	14 1	103 7
1928-----	20 9	137 5	14 49	143 5	22 8	100 0	16 3	100 6	12 3	87 2	9 63	101 6	14 2	104 4
Yearly average or year	Carcase, good native steers, Chicago		Pork, fresh loins, Chicago		Poultry, dressed fowls, Chicago <sup>1</sup>		Butter, creamery, extra New York		Cheese, whole milk, New York		Eggs, firsts, fresh, New York <sup>2</sup>		Milk, fresh, New York	
	Price	Index	Price	Index	Price	Index	Price	Index	Price	Index	Price	Index	Price	Index
1891-1895-----	-----	-----	-----	-----	-----	-----	24 7	54 9	10 3	46 6	20 8	56 2	3 3	45 2
1896-1900-----	-----	-----	-----	-----	-----	-----	20 1	44 7	9 8	44 3	18 5	50 0	3 2	43 8
1901-1905-----	-----	-----	-----	-----	-----	-----	23 3	51 8	11 2	50 7	24 6	66 5	3 4	46 6
1906-1910-----	<sup>3</sup> 11 0	<sup>3</sup> 64 7	-----	-----	-----	-----	27 9	62 0	14 3	64 7	29 2	78 9	4 0	54 8
1911-1915-----	12 8	75 3	-----	-----	-----	-----	30 0	66 7	15 2	68 8	28 0	75 7	4 2	57 5
1916-1920-----	19 8	116 5	-----	-----	-----	-----	50 1	111 3	25 6	115 8	45 6	123 2	7 1	97 3
1921-1925-----	16 4	96 5	21 2	102 4	25 0	101 6	43 8	97 3	21 7	98 2	37 2	100 5	7 4	101 4
1923-1925-----	17 0	100 0	20 7	100 0	24 6	100 0	45 0	100 0	22 1	100 0	37 0	100 0	7 3	100 0
1924-----	17 1	100 6	19 2	92 8	24 9	101 2	42 7	94 9	19 2	86 9	36 4	98 4	6 8	93 2
1925-----	18 0	105 9	25 0	120 8	24 5	99 6	45 4	100 9	23 1	104 5	39 8	107 6	7 6	104 1
1926-----	16 4	96 5	27 8	134 3	27 1	110 2	44 3	98 4	22 7	102 7	35 6	96 2	7 7	105 5
1927-----	18 6	109 4	24 0	115 9	23 2	94 3	47 3	105 1	24 9	112 7	32 0	86 5	7 9	108 2
1928-----	22 8	134 1	22 5	108 7	22 6	91 9	47 4	105 3	25 1	113 6	32 9	88 9	8 2	112 3

<sup>1</sup> "Poultry iced" prior to 1923

<sup>2</sup> "New laid, fair to fancy, near-by" to 1912, thereafter "firsts, freshly gathered." The absolute prices are not comparable but the index numbers are closely comparable.

<sup>3</sup> Average for 3 years, 1908 to 1910.

Source: Absolute prices, Bureau of Labor Statistics, Department of Labor, indexes, computed from absolute prices by Bureau of Foreign and Domestic Commerce

## No. 619.—FARM PRICES OF ANIMALS AND ANIMAL PRODUCTS

NOTE.—Prices represent weighted averages for the entire country. Annual averages are weighted according to volume marketed each month. Market year ends in July for cattle, October for hogs, May for lambs, June for chickens, and March for eggs. Quotations are as of the 15th of each month. All prices are in cents per pound except for eggs which are in cents per dozen

Year	Market year					Calendar year			
	Beef cattle	Hogs	Lambs	Chick- ens	Eggs	Veal calves	Sheep	Wool, un- washed	Butter
1912-----	4 69	6 43	5 28	10 4	18 2	6 45	4 24	18 1	25 7
1913-----	5 60	7 39	5 96	11 2	18 9	7 48	4 55	16 4	26 7
1914-----	6 12	7 60	6 03	12 0	19 8	7 83	4 79	17 7	25 1
1915-----	6 12	6 69	6 49	11 5	19 3	7 63	5 27	22 8	25 7
1916-----	6 24	7 61	7 38	12 0	19 0	8 35	6 29	27 9	28 0
1917-----	7 31	12 10	9 50	14 6	23 3	10 51	9 45	47 8	35 9
1918-----	8 92	15 78	13 60	18 4	33 0	11 91	10 95	57 9	42 7
1919-----	9 85	16 60	13 65	23 0	34 9	12 76	9 63	50 3	50 3
1920-----	9 00	13 43	13 05	24 2	41 8	11 80	8 61	39 1	54 3
1921-----	6 76	8 52	9 41	22 8	39 3	7 81	4 65	16 4	37 0
1922-----	5 18	8 10	7 83	19 3	25 3	7 68	5 96	29 8	35 3
1923-----	5 55	7 34	10 30	18 2	24 7	7 99	6 65	38 9	40 4
1924-----	5 57	7 06	10 54	18 3	25 2	8 12	6 81	36 9	39 4
1925-----	5 88	10 46	11 45	19 2	26 1	8 85	7 70	38 5	40 7
1926-----	6 40	11 63	11 98	20 7	28 3	9 61	7 43	32 5	41 1
1927-----	6 67	10 21	11 36	20 7	27 5	10 16	7 26	30 7	42 3
1928-----	8 58	8 67	11 76	19 8	24 2	11 79	7 68	36 7	43 7
December, 1928-----	8 94	7 93	11 41	21 2	42 9	11 82	7 29	35 6	46 3

Source. Bureau of Agricultural Economics, Department of Agriculture.

**No. 620.—MEATS: PRODUCTION, EXPORTS, IMPORTS, AND ESTIMATED CONSUMPTION, AND NUMBER OF ANIMALS SLAUGHTERED UNDER FEDERAL INSPECTION**  
**NOTE**—All figures except per capita in millions of pounds. Uninspected slaughter is a rough estimate, based on ratios established at the census of 1909 and revised after the publication of more accurate data from census and other sources. The edible offal (liver, pluck, etc.) is disregarded. Figures of consumption beginning with 1916 include differences between quantities in storage at beginning and end of year

Yearly average or year (calendar)	Production			Exports	Imports (less re- exports)	Consumption	
	Esti- mated total	Feder- ally inspected	Unin- spected <sup>1</sup>			Esti- mated total	Per capita (pounds)
<b>All meat (excluding lard) <sup>2</sup></b>							
1900-1904.....	12,746	6,280	6,466	1,118	-----	11,414	143.8
1905-1909.....	14,114	7,953	6,161	942	-----	13,001	148.7
1910-1914.....	13,776	8,256	5,520	506	<sup>3</sup> 171	13,239	139.2
1915-1920.....	15,049	9,925	5,125	1,603	90	13,204	128.3
1921-1925.....	16,852	11,030	5,822	794	38	15,989	143.0
1926.....	17,245	11,354	5,891	465	59	16,753	143.0
1927.....	16,872	11,272	5,600	352	114	16,570	139.7
1928.....	16,955	11,317	5,638	360	143	16,569	138.0
<b>Beef:</b>							
1900-1904.....	6,154	3,227	2,927	416	-----	5,640	71.0
1905-1909.....	6,853	3,971	2,882	310	-----	6,472	74.0
1910-1914.....	6,109	3,761	2,347	79	<sup>3</sup> 144	6,059	63.8
1915-1920.....	6,541	4,681	1,860	365	66	6,143	59.6
1921-1925.....	6,791	4,619	2,172	44	23	6,765	61.1
1926.....	7,458	5,223	2,235	38	41	7,454	63.6
1927.....	6,826	4,783	2,043	34	82	6,926	58.4
1928.....	6,082	4,263	1,819	24	121	6,210	51.7
<b>Veal:</b>							
1900-1904.....	345	54	291	-----	-----	345	4.3
1905-1909.....	542	155	387	-----	-----	542	6.2
1910-1914.....	552	195	358	-----	<sup>4</sup> 5	553	5.8
1915-1920.....	665	297	368	-----	3	667	6.5
1921-1925.....	868	449	419	-----	4	872	7.9
1926.....	960	630	430	-----	4	964	8.2
1927.....	867	493	374	-----	8	874	7.4
1928.....	814	462	352	-----	8	822	6.8
<b>Mutton and lamb:</b>							
1900-1904.....	552	328	227	<sup>1</sup> 2	-----	551	6.9
1905-1909.....	564	400	165	2	-----	563	6.5
1910-1914.....	711	552	159	4	<sup>4</sup> 18	710	7.4
1915-1920.....	555	430	126	5	17	566	5.5
1921-1925.....	584	456	128	4	8	589	5.3
1926.....	643	501	142	2	2	642	5.5
1927.....	645	502	143	2	3	645	5.4
1928.....	671	523	148	2	3	673	5.6
<b>Pork (excluding lard) <sup>2</sup></b>							
1900-1904.....	5,695	2,674	3,021	700	-----	4,879	61.5
1905-1909.....	6,140	3,422	2,717	630	-----	5,409	61.8
1910-1914.....	6,361	3,733	2,628	422	<sup>1</sup> 16	5,873	61.7
1915-1920.....	7,273	4,513	2,760	1,233	5	5,813	56.5
1921-1925.....	8,607	5,506	3,101	745	4	7,754	69.4
1926.....	8,151	5,099	3,052	426	12	7,690	65.7
1927.....	8,533	5,495	3,038	316	21	8,122	68.5
1928.....	9,387	6,069	3,318	334	11	8,863	73.9
<b>Lard</b>							
1900-1904.....	1,552	799	754	569	-----	983	12.4
1905-1909.....	1,653	975	678	607	-----	1,046	11.9
1910-1914.....	1,614	948	666	519	-----	1,095	11.5
1915-1920.....	1,877	1,178	698	556	-----	1,321	12.9
1921-1925.....	2,445	1,660	785	896	-----	1,552	13.9
1926.....	2,324	1,513	811	733	-----	1,584	13.5
1927.....	2,356	1,557	799	717	-----	1,634	13.8
1928.....	2,594	1,760	844	801	-----	1,793	14.7

**NUMBER OF ANIMALS SLAUGHTERED UNDER FEDERAL INSPECTION (THOUSANDS)**

Year	Cattle	Calves	Sheep	Goats	Swine	Year	Cattle	Calves	Sheep	Goats	Swine
1910-1914.....	7,283	2,060	13,808	93	31,986	1919.....	10,091	3,969	12,691	87	41,812
1915-1920.....	9,390	3,135	11,249	131	39,403	1920.....	8,609	4,058	10,982	42	38,019
1921-1925.....	8,979	4,556	11,891	26	46,269	1921.....	7,608	3,808	13,005	12	38,982
1912.....	7,253	2,278	14,979	73	33,053	1922.....	8,678	4,182	10,929	21	43,114
1913.....	6,978	1,902	14,406	76	34,199	1923.....	9,163	4,500	11,529	27	53,334
1914.....	6,757	1,697	14,229	176	32,532	1924.....	9,593	4,935	11,991	33	52,873
1915.....	7,153	1,819	12,212	153	38,381	1925.....	9,853	5,353	12,001	39	43,043
1916.....	8,310	2,367	11,941	199	43,084	1926.....	10,180	5,153	12,961	40	63,636
1917.....	10,350	3,143	9,345	166	33,910	1927.....	9,520	4,876	12,883	43	63,633
1918.....	11,829	3,456	10,320	138	41,214	1928.....	8,467	4,680	13,488	49	79,795

<sup>1</sup> Estimated.

<sup>2</sup> All meat includes small quantities of goat meat.

<sup>3</sup> 2-year average.

<sup>4</sup> 1-year

<sup>5</sup> 4-year average

Source. Bureau of Animal Industry, Department of Agriculture

# No. 621.—LIVESTOCK PRODUCTS OF FARMS: SUMMARY OF CENSUS STATISTICS FOR THE UNITED STATES

Product	Quantity (thousands)				Value (thousands of dollars)			
	Unit	1899	1909	1919	1924	1909	1919	1924
Total value.....						1, 177, 975	2, 666, 944	2, 345, 219
Dairy products.....						596, 413	1, 481, 462	1, 260, 778
Butter made on farms.....	Lb.....	1, 071, 626	994, 651	707, 666	642, 803	222, 861	346, 356	223, 139
Cheese made on farms.....	do.....	16, 372	9, 406	6, 371	(1)	1, 149	2, 268	(1)
Whole milk sold.....	Gal.....	2, 134, 830	1, 937, 256	2, 529, 331	2, 666, 612	252, 437	717, 380	555, 269
Cream sold.....	do.....	20, 769	54, 934	82, 248	45, 736	37, 655	111, 906	62, 059
Butterfat sold.....	Lb.....		305, 663	532, 244	1, 061, 062	82, 312	308, 552	415, 311
Wool and mohair 1.....		277, 529	293, 199	235, 604	235, 531	66, 374	124, 007	93, 122
Wool produced 2.....	Lb.....	276, 568	289, 420	228, 795	227, 105	65, 472	120, 418	88, 630
Mohair produced.....	do.....	961	3, 779	6, 809	8, 426	902	3, 589	4, 491
Poultry products 2.....						509, 195	1, 047, 195	991, 319
Eggs produced 2.....	Doz.....	1, 293, 662	1, 591, 311	1, 654, 045	1, 913, 245	306, 689	661, 083	571, 938
Fowls raised 2.....	No.....	250, 624	488, 468	473, 201	545, 848	202, 506	386, 112	419, 381
Honey and wax.....					(1)	5, 992	14, 280	(1)
Honey produced.....	Lb.....	61, 099	54, 815	55, 224	(1)	5, 763	13, 989	(1)
Wax produced.....	do.....	1, 764	905	821	(1)	229	291	(1)

<sup>1</sup> Not reported.<sup>2</sup> Figures include estimates for incomplete reports, as where a farmer reported sheep but no wool production, or chickens but no egg production.<sup>3</sup> The 1919 and 1924 figures represent only chicken eggs and chickens raised, respectively.

Source: Bureau of the Census, Department of Commerce.

# No. 622.—CHEESE: CENSUS STATISTICS OF PRODUCTION IN THE UNITED STATES AND IN LEADING STATES

NOTE.—All figures in thousands of pounds. All States shown separately which produced over 1,000,000 pounds in any census year shown. Total production in factories only: 1904, 317,145,000 pounds; 1914, 370,279,900 pounds; 1921, 423,360,000 pounds; 1925, 554,348,000 pounds

State	Total <sup>1,2</sup>		On farms <sup>1</sup>		In factories <sup>1,2</sup>			
	1909	1919	1909	1919	1909	1919	1923	1927
<b>Total</b> .....	320, 532	479, 940	9, 406	6, 371	311, 126	473, 569	563, 640	515, 462
California.....	4, 346	12, 055	2, 778	2, 346	1, 568	9, 709	9, 093	19, 247
Colorado.....	621	1, 320	70	157	551	1, 163	1, 638	2, 541
Idaho.....	<sup>3</sup> 91	2, 655	91	32	( <sup>4</sup> )	2, 623	4, 637	8, 952
Illinois.....	4, 881	4, 969	82	118	4, 799	4, 851	7, 203	12, 366
Indiana.....	489	378	64	109	425	269	468	3, 649
Iowa.....	1, 079	1, 069	79	53	1, 000	1, 016	773	710
Michigan.....	13, 673	12, 934	291	77	13, 382	12, 857	11, 154	12, 994
Minnesota.....	2, 842	10, 188	106	72	2, 786	10, 116	9, 311	9, 389
Missouri.....	379	279	160	90	219	189	1, 058	2, 781
Montana.....	<sup>3</sup> 50	<sup>3</sup> 43	50	43	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	1, 392
New York.....	105, 585	89, 479	390	521	105, 195	88, 958	76, 129	57, 746
Ohio.....	12, 474	5, 655	613	434	11, 861	5, 221	6, 686	8, 582
Oregon.....	4, 388	9, 468	169	44	4, 219	9, 424	11, 888	15, 348
Pennsylvania.....	12, 677	15, 971	1, 443	532	11, 234	15, 439	14, 841	13, 380
Utah.....	1, 144	1, 145	84	74	1, 060	1, 071	2, 269	2, 107
Vermont.....	3, 009	4, 984	246	76	2, 763	4, 908	3, 607	1, 530
Washington.....	475	2, 376	53	85	422	2, 291	4, 773	6, 291
Wisconsin.....	148, 907	299, 014	841	308	148, 066	298, 706	392, 349	327, 383
Wyoming.....	<sup>3</sup> 10	1, 509	10	7	( <sup>4</sup> )	1, 502	1, 791	2, 172
All other States.....	3, 412	4, 449	1, 786	1, 193	1, 626	3, 256	3, 972	6, 902

<sup>1</sup> Includes data for soft cheese, such as cottage, pot, and bakers.<sup>2</sup> The figures are exclusive of the small amount of cheese made as an incidental product in establishments engaged primarily in the manufacture of products other than butter, cheese, or condensed milk.<sup>3</sup> Excludes cheese made in factories which is included in "All other States."<sup>4</sup> Included in "All other States."

Source: Bureau of the Census, Department of Commerce.

## No. 623.—MILK AND BUTTER: CENSUS STATISTICS, BY STATES

NOTE.—United States butter production (pounds)—Total: 1879, 793,721,000; 1889, 1,205,508,000. In factories: 1909, 624,765,000, 1914, 769,810,000, 1921, 1,118,204,000; 1923, 1,303,499,000, 1925, 1,444,288,000. On farms: 1919, 707,666,000

Division and State	Milk produced, total including estimates (thousands of gallons)			Milk sold by farmers (thousands of gallons)		Butter made (thousands of pounds)			
	1909	1919	1924	1919	1924	1909, total <sup>1</sup>	1924		1927, in factories only <sup>1</sup>
							Total <sup>2</sup>	On farms	
United States.....	7,486,406	7,805,144	9,193,304	2,529,331	2,666,612	1,619,415	2,087,091	642,803	1,549,457
New England.....	400,848	385,839	402,765	208,464	205,540	(3)	431,284	18,196	-----
Maine.....	69,784	77,077	70,949	28,191	18,229	15,405	9,581	9,241	191
New Hampshire.....	44,461	42,556	38,149	23,043	21,027	6,805	2,573	2,470	(3)
Vermont.....	127,619	122,096	127,957	55,819	40,357	35,393	13,521	3,402	3,986
Massachusetts.....	90,438	78,316	86,575	55,677	65,849	5,253	3,663	1,456	3,083
Rhode Island.....	12,178	12,099	13,504	9,314	11,392	(3)	4,132	132	(3)
Connecticut.....	59,829	54,894	65,631	36,920	48,627	6,449	5,149	1,494	356
Middle Atlantic.....	1,272,849	1,248,168	1,264,502	879,984	883,181	165,393	483,524	53,545	(3)
New York.....	783,479	756,046	741,983	573,162	552,804	69,359	40,627	22,106	12,380
New Jersey.....	80,600	70,491	76,245	56,377	60,908	4,391	5,945	945	(3)
Pennsylvania.....	411,735	421,631	446,273	250,445	269,469	91,642	41,952	30,494	11,584
East North Central.....	1,980,106	2,246,880	2,614,917	948,481	920,994	424,138	531,172	87,892	444,568
Ohio.....	362,050	396,318	425,834	139,064	159,816	81,060	107,930	23,309	86,180
Indiana.....	216,888	238,794	270,963	45,167	66,062	54,894	68,512	14,172	61,139
Illinois.....	395,934	370,487	435,133	159,579	196,557	71,181	85,066	22,889	65,752
Michigan.....	352,868	382,232	424,236	130,864	144,911	85,917	91,879	20,350	68,081
Wisconsin.....	667,498	858,259	1,038,751	473,817	353,649	131,085	177,785	7,172	163,416
West North Central.....	1,731,472	1,718,410	2,275,079	129,303	167,103	444,724	815,700	124,119	780,879
Minnesota.....	409,191	475,507	663,638	43,152	50,829	123,552	283,975	16,825	278,039
Iowa.....	489,564	361,426	515,909	31,356	35,379	127,262	191,513	23,328	186,443
Missouri.....	220,959	228,908	273,956	17,901	30,297	52,367	87,873	25,937	72,768
North Dakota.....	100,559	138,607	199,037	3,047	3,038	20,098	47,180	14,773	33,689
South Dakota.....	117,215	124,425	172,963	2,698	5,145	23,125	40,026	10,626	36,597
Nebraska.....	198,306	168,083	197,601	10,182	13,876	49,960	68,678	15,937	96,306
Kansas.....	217,888	221,464	251,969	20,969	28,539	48,360	66,455	17,293	58,037
South Atlantic.....	517,876	517,728	567,849	81,264	120,958	(3)	411,515	108,097	-----
Delaware.....	10,962	11,356	13,037	6,876	8,552	2,190	8,112	812	(3)
Maryland.....	59,736	58,754	74,043	29,843	42,983	9,858	6,000	5,255	165
Dist. of Columbia.....	611	512	431	129	439	6	5	5	-----
Virginia.....	104,391	110,942	127,447	17,009	24,241	26,810	28,281	24,232	5,489
West Virginia.....	75,694	73,690	76,621	6,779	10,425	(3)	16,744	16,055	373
North Carolina.....	96,909	95,748	108,152	7,060	11,222	26,060	26,795	25,360	2,134
South Carolina.....	50,274	52,955	49,982	2,871	3,214	12,330	12,857	12,556	388
Georgia.....	100,210	101,616	98,822	7,390	11,310	27,324	22,277	22,277	2,514
Florida.....	12,532	12,156	19,265	3,307	8,571	1,705	1,544	1,544	(3)
East South Central.....	463,882	458,942	499,612	32,803	47,541	(3)	140,638	107,259	42,923
Kentucky.....	140,983	146,561	165,921	12,469	17,485	38,681	42,959	28,595	20,152
Tennessee.....	129,456	130,286	148,759	9,831	15,591	39,828	44,770	32,461	13,533
Alabama.....	67,884	63,904	95,365	6,409	7,128	(3)	28,868	27,705	1,390
Mississippi.....	96,227	88,192	99,567	4,094	7,326	28,731	24,011	18,498	7,818
West South Central.....	521,896	459,371	588,777	36,808	64,553	(3)	140,539	109,151	52,853
Arkansas.....	97,932	87,624	98,709	4,332	5,758	30,268	24,906	23,962	1,051
Louisiana.....	48,284	32,973	37,870	5,334	10,935	(3)	4,319	4,319	252
Oklahoma.....	134,291	135,821	177,597	7,782	12,358	31,167	41,501	25,519	28,505
Texas.....	240,286	202,954	274,541	19,300	35,502	67,127	69,813	55,351	23,015
Mountain.....	174,404	260,412	362,431	47,821	54,858	(3)	86,782	21,709	72,293
Montana.....	26,437	51,251	73,185	5,102	6,175	4,128	20,158	5,416	14,125
Idaho.....	30,981	52,365	78,505	6,303	8,805	5,900	20,108	3,662	20,467
Wyoming.....	9,744	14,543	24,318	2,145	2,112	1,976	3,971	1,760	2,247
Colorado.....	51,670	79,493	96,649	10,087	17,703	12,208	24,045	5,545	20,555
New Mexico.....	11,659	12,738	19,027	1,626	3,987	(3)	2,041	1,761	284
Arizona.....	11,227	14,371	18,416	6,707	6,835	1,380	2,589	1,761	2,148
Utah.....	26,306	29,340	40,847	9,051	7,507	6,220	10,895	2,913	10,266
Nevada.....	6,543	6,312	11,483	801	1,734	1,444	2,754	244	2,191
Pacific.....	392,405	509,794	622,373	164,392	201,885	84,780	139,374	12,835	131,000
Washington.....	92,185	140,525	169,846	63,575	45,819	18,054	34,469	5,900	31,502
Oregon.....	71,953	92,845	112,218	22,878	25,598	14,141	26,804	3,901	24,391
California.....	229,460	276,424	340,309	77,938	130,468	52,585	78,101	3,844	75,107

<sup>1</sup> Figures given are exclusive of small amounts of butter made as an incidental product in establishments engaged primarily in the manufacture of products other than butter, cheese, or condensed milk.

<sup>2</sup> Includes butter made on farms in 1924 and in factories in 1925.

<sup>3</sup> Not shown separately, as to do so would disclose individual operations.

<sup>4</sup> Excludes small amount of butter made in factories of one or two States in this group.

<sup>5</sup> Excludes butter made in factories.

Source. Bureau of the Census, Department of Commerce

**No. 624.—DAIRY PRODUCTS: FACTORY PRODUCTION BY DETAILED CLASSES**  
(In thousands of pounds)

Manufactured product	1922	1923	1924	1925	1926	1927
Creamery butter	1, 153, 515	1, 252, 214	1, 356, 080	1, 361, 526	1, 451, 766	1, 496, 495
Whey butter (made from whey cream)	2, 291	1, 904	1, 665	1, 774	2, 872	1, 217
Renovated or process butter	4, 448	2, 802	2, 813	2, 519	2, 505	4, 286
American cheese (whole milk)	282, 806	308, 108	324, 695	347, 240	335, 915	307, 777
American cheese (part skim)	2, 164	2, 145	2, 470	2, 793	2, 927	3, 390
American cheese (full skim)	2, 500	2, 033	1, 605	3, 298	1, 354	1, 888
Swiss cheese (including block)	19, 983	24, 555	21, 844	23, 457	20, 883	18, 141
Brick and Munster cheese	37, 194	33, 250	32, 052	34, 101	31, 048	31, 546
Limburger cheese	7, 383	7, 100	9, 734	9, 163	9, 639	8, 842
Cottage, pot, and bakers' cheese	32, 389	35, 527	54, 347	59, 485	67, 977	75, 679
Cream and Neufchatel cheese	9, 936	10, 334	14, 945	17, 575	18, 192	25, 962
All Italian varieties of cheese	2, 627	2, 132	1, 973	1, 562	2, 425	3, 377
All other varieties of cheese	5, 387	5, 040	4, 622	4, 325	5, 003	5, 763
Sweetened condensed milk						
Skimmed	79, 964	104, 984	98, 625	117, 333	148, 771	145, 345
Unskimmed	260, 748	240, 918	234, 710	231, 565	210, 681	201, 023
Unsweetened evaporated milk						
Skimmed	70, 640	84, 451	94, 686	92, 948	128, 743	134, 185
Unskimmed	1, 019, 997	1, 344, 528	1, 272, 527	1, 316, 012	1, 245, 309	1, 375, 169
Sterilized milk (canned same as condensed)	330	80	488	1, 576	1, 288	
Condensed or evaporated buttermilk	44, 343	54, 833	66, 837	77, 079	86, 687	99, 180
Dried or powdered buttermilk	9, 007	13, 032	18, 058	20, 246	31, 378	38, 435
Powdered whole milk	5, 599	6, 560	7, 887	8, 931	10, 768	11, 464
Powdered skimmed milk	40, 617	62, 251	69, 219	73, 317	91, 718	118, 123
Powdered cream	118	328	1, 018	339	331	338
Dried casein (skim-milk product)	6, 907	14, 500	20, 683	16, 468	16, 893	18, 033
Dried casein (buttermilk product)	20	48	76	192	60	
Malted milk	13, 659	15, 331	15, 889	18, 050	20, 673	22, 116
Milk sugar (crude)	2, 191	2, 872	3, 331	5, 655	3, 331	4, 077
Ice cream of all kinds <sup>1</sup>	161, 609	183, 412	181, 564	214, 382	215, 248	226, 756

<sup>1</sup> Production of ice cream shown in thousands of gallons.

Source: Bureau of Agricultural Economics, Department of Agriculture.

**No. 625.—MILK: PRODUCTION AND USES IN THE UNITED STATES (ESTIMATES)**

Purpose for which milk is used	1926				1927 (preliminary)			
	Whole milk used	Per cent of milk used for manufacture	Milk used per pound of product	Product manufactured	Whole milk used	Per cent of milk used for manufacture	Milk used per pound of product	Product manufactured
	<i>Million pounds</i>		<i>Pounds</i>	<i>Million pounds</i>	<i>Million pounds</i>		<i>Pounds</i>	<i>Million pounds</i>
Butter								
Creamery	30, 487	53.8	21	1, 452	31, 426	54.5	21	1, 496
Farm	12, 915	22.7	21	615	12, 600	21.8	21	600
Cheese, all kinds	4, 274	7.5	10	427	4, 067	7.1	10	407
Milk								
Condensed and evaporated	4, 334	7.6	2.5	1, 734	4, 639	8.0	2.5	1, 856
Powdered	87	.2	8	11	92	.2	8	11
Malted	45	.1	2.2	21	40	.1	2.2	18
Sterilized, canned	1		1	1				
Chocolate	172	.3		183		.3		
Cream, powdered	6		19	( <sup>1</sup> ) 6	6		19	( <sup>1</sup> )
Ice cream	4, 464	7.8	<sup>2</sup> 13.75	<sup>2</sup> 325	4, 615	8.0	<sup>2</sup> 13.75	<sup>2</sup> 336
Total milk for manufacture	456, 785	100.0			57, 668	100.0		
Milk used otherwise								
Household purposes	56, 417				( <sup>3</sup> )			
Fed to calves	3, 942				3, 708			
Waste, loss, and unspecified	3, 623				( <sup>4</sup> )			
Total milk produced	120, 766				( <sup>5</sup> )			

<sup>1</sup> Less than 500,000 pounds.

<sup>2</sup> Milk used per gallon of ice cream.

<sup>3</sup> Millions of gallons. Includes estimated amounts made in homes and small establishments not reporting.

<sup>4</sup> In 1926 milk used for manufacture equaled 47 per cent of total milk produced

<sup>5</sup> Not yet available.

Source: Bureau of Agricultural Economics, Department of Agriculture.

# **No. 626.—BUTTER AND CHEESE: PRODUCTION, GROSS RECEIPTS AT FIVE PRINCIPAL MARKETS, AND COLD-STORAGE HOLDINGS**

NOTE.—All figures in thousands of pounds. Cheese production relates to the grade "American" (whole milk) only, receipts to all kinds

Product and market	1918-1922, average			1923	1924	1925	1926	1927	1928			
BUTTER												
Production, creamery-----	951,666	1,252,214	1,356,080	1,361,526	1,451,768	1,496,495	1,479,198					
Receipts (5 markets)-----	573,818	646,423	696,905	681,727	679,480	689,575	676,958					
New York-----	212,346	243,704	218,759	244,127	252,742	261,322	250,593					
Chicago-----	209,375	225,892	258,083	254,308	236,546	235,200	230,514					
Philadelphia-----	52,563	68,598	76,731	72,064	79,345	81,727	84,495					
Boston-----	75,537	82,659	86,921	82,476	83,243	84,617	87,324					
San Francisco-----	23,997	25,510	26,411	28,752	27,604	26,709	24,032					
Cold-storage holdings, Dec 1--	66,283	51,508	100,832	74,754	64,381	83,224	70,985					
CHEESE												
Production, American-----	269,599	308,108	324,695	347,240	335,915	307,777	330,819					
Receipts (5 markets)-----	219,037	215,056	228,558	207,888	218,248	218,248	198,613					
New York-----	52,343	49,425	42,959	46,163	45,363	46,937	48,272					
Chicago-----	123,645	130,024	131,129	115,104	123,633	97,264	97,264					
Philadelphia-----	18,363	16,866	19,095	19,454	20,396	21,039	21,039					
Boston-----	14,086	15,914	13,725	15,314	15,437	14,588	17,362					
San Francisco-----	9,964	11,690	11,482	11,855	12,530	12,694	12,676					
Cold-storage holdings, Dec 1--	39,880	55,105	58,705	66,495	63,881	53,447	74,325					
American-----	14,182	17,518	18,889	18,069	17,203	17,288	15,645					
All other-----												
	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec.
BUTTER												
Production, creamery:												
1926-----	97,893	94,222	112,432	121,049	155,912	178,276	159,554	133,294	116,732	103,068	88,481	90,853
1927-----	97,965	95,522	111,451	126,415	168,808	188,792	170,484	146,808	113,546	102,399	86,058	88,247
1928-----	103,860	96,768	108,437	117,758	156,020	182,016	167,750	142,687	119,084	104,702	87,522	92,594
Receipts (5 markets):												
1926-----	46,809	46,809	54,646	53,990	64,653	89,993	81,053	59,849	52,985	45,280	40,588	42,825
1927-----	44,756	45,502	53,633	57,298	75,535	89,773	79,670	68,055	50,055	45,425	39,895	39,978
1928-----	50,095	47,797	54,300	52,158	63,582	81,318	75,901	64,531	52,481	48,907	42,796	43,092
CHEESE												
Production, American:												
1926-----	19,519	19,984	25,216	29,221	38,598	46,320	40,164	33,239	28,809	23,164	16,386	15,295
1927-----	16,660	17,085	21,818	24,633	34,704	41,489	38,195	31,944	25,783	23,012	16,717	16,337
1928-----	17,806	18,784	23,196	27,780	36,794	44,482	39,543	33,788	29,989	24,771	17,727	16,159
Receipts (5 markets):												
1926-----	14,853	13,568	15,055	15,531	14,972	21,777	21,973	20,736	18,784	18,699	15,954	15,986
1927-----	12,707	14,916	14,956	16,922	21,301	22,134	24,134	22,556	21,522	18,996	14,278	13,826
1928-----	14,409	13,715	14,654	15,139	16,253	19,216	21,741	18,728	18,222	18,665	14,179	11,692

## **No. 627.—BUTTER AND CHEESE PRICES**

NOTE.—Prices in cents per pound. Farm price represents weighted average of farm-made butter for entire country. Wholesale prices are for 92-score creamery butter and for American No. 1 cheese

Year	Butter, farm price		Wholesale, New York, annual averages		Month	Butter, farm price		Wholesale, New York			
								Butter		Cheese	
	June 15	Dec 15	Butter	Cheese		Average, 1913-1924	1928	Average, 1913-1924	1928	Average, 1913-1924	1928
1915-----	24 5	28 0	30	15	Average-----	37 3	43 7	43	47	22	<sup>s</sup> 25
1916-----	26.1	34.2	34	19	January-----	39.5	45.2	46	49	23	27
1917-----	34.2	42.5	43	24	February-----	37.9	43.9	44	47	22	24
1918-----	38.4	53.8	51	27	March-----	37.1	43.9	44	49	22	24
1919-----	48.2	60.6	61	32	April-----	36.8	44.0	43	45	21	22
1920-----	52.6	51.8	61	29	May-----	35.6	42.9	39	45	21	23
1921-----	28.2	40.7	43	21	June-----	34.0	42.2	38	44	20	25
1922-----	35.1	42.9	41	20	July-----	34.1	42.4	38	45	21	26
1923-----	37.9	45.8	47	25	August-----	35.2	42.8	39	47	21	26
1924-----	36.3	41.8	43	20	September-----	36.8	44.3	42	49	22	27
1925-----	38.2	46.0	45	24	October-----	38.7	45.2	45	48	<sup>4</sup> 23	-----
1926-----	39.5	45.5	44	<sup>1</sup> 23	November-----	40.5	45.6	48	51	<sup>4</sup> 23	26
1927-----	40.4	45.7	47	<sup>2</sup> 25	December-----	41.7	46.3	49	50	<sup>5</sup> 24	26
1928-----	42.2	46.3	47	<sup>3</sup> 25							

<sup>1</sup> 10-month average    <sup>2</sup> 7-month average    <sup>3</sup> 11-month average.    <sup>4</sup> 11-year average.    <sup>5</sup> 10-year average.

Source of Tables 000 and 000 Bureau of Agricultural Economics, Department of Agriculture.

Source: Bureau of the Census, Department of Commerce.



## No. 630.—CHICKENS ON FARMS, CHICKENS RAISED, AND EGGS PRODUCED

NOTE.—For additional figures for United States as a whole, see Table 621

Division and State	Chickens on hand (thousands)			Chickens raised (thousands) <sup>1</sup>			Eggs produced (thousands of dozens) <sup>1</sup>		
	1910 <sup>2</sup> (Apr 15)	1920 (Jan. 1)	1925 (Jan 1)	1909	1919	1924	1909	1919	1924
United States.....	280,341	359,587	409,291	460,611	473,201	545,848	1,574,979	1,654,045	1,913,245
New England.....	6,840	5,804	8,138	10,757	8,378	13,439	54,669	37,632	56,540
Maine.....	1,705	1,403	1,900	2,555	1,908	2,838	14,876	9,977	13,613
New Hampshire.....	903	771	1,207	1,363	1,071	2,442	7,469	5,005	8,181
Vermont.....	912	800	941	1,247	1,016	1,339	7,002	5,167	6,372
Massachusetts.....	1,710	1,455	2,030	3,055	2,401	3,631	13,961	9,604	14,325
Rhode Island.....	393	254	361	570	434	519	2,862	1,537	2,275
Connecticut.....	1,218	1,120	1,699	1,968	1,546	2,070	8,498	6,341	11,775
Middle Atlantic.....	24,449	27,462	34,829	34,071	31,059	39,779	159,465	151,453	216,632
New York.....	10,232	10,415	13,409	13,394	11,873	14,941	71,191	62,175	87,167
New Jersey.....	2,320	2,534	4,114	4,329	3,523	5,492	14,591	13,280	27,417
Pennsylvania.....	11,896	14,503	17,306	16,348	15,664	19,346	73,683	75,998	102,048
East North Central.....	69,471	84,516	99,623	98,896	99,252	113,887	389,957	400,445	441,689
Ohio.....	16,850	20,233	20,927	22,777	22,458	26,937	100,284	102,377	112,893
Indiana.....	13,216	16,754	17,355	22,099	22,618	25,257	80,029	83,101	96,975
Illinois.....	20,564	25,121	25,738	31,059	29,894	32,204	99,113	105,758	113,021
Michigan.....	9,698	10,914	12,579	12,530	12,442	15,276	59,556	55,987	68,209
Wisconsin.....	9,143	11,495	13,023	10,431	11,840	14,194	50,269	53,222	60,584
West North Central.....	85,192	105,348	123,101	118,998	128,763	158,864	442,169	474,592	543,558
Minnesota.....	10,294	13,213	16,408	11,412	15,062	20,352	53,324	60,250	76,322
Iowa.....	22,692	27,747	30,275	28,970	31,076	38,135	108,663	120,697	133,776
Missouri.....	19,910	24,884	28,222	30,413	29,363	34,596	110,922	117,204	129,291
North Dakota.....	3,095	4,329	5,181	3,829	5,324	5,722	17,069	20,820	20,988
South Dakota.....	4,924	6,642	7,906	5,803	7,638	10,607	24,641	30,352	35,104
Nebraska.....	9,011	11,615	13,500	14,724	15,797	20,310	46,461	49,133	54,811
Kansas.....	15,266	16,919	21,609	23,846	22,503	29,091	81,088	76,137	93,267
South Atlantic.....	25,627	36,408	41,120	65,059	65,374	68,752	134,290	144,662	153,799
Delaware.....	786	949	1,365	1,401	1,205	1,582	4,395	3,908	6,381
Maryland.....	2,651	3,436	4,198	5,420	5,258	6,025	15,239	15,086	20,069
District of Columbia.....	7	10	16	14	14	10	51	43	69
Virginia.....	5,685	7,860	9,221	15,183	14,227	15,892	34,539	36,551	39,044
West Virginia.....	3,107	4,028	4,349	5,205	4,873	5,305	18,948	21,708	22,125
North Carolina.....	4,666	7,393	8,558	13,766	14,407	15,057	23,179	24,841	25,587
South Carolina.....	2,695	3,954	4,238	8,062	9,016	7,830	10,983	12,812	11,109
Georgia.....	4,890	7,222	7,043	13,706	14,588	12,284	20,606	23,182	19,838
Florida.....	1,240	1,555	2,130	2,301	2,146	2,766	6,349	6,531	9,577
East South Central.....	24,495	34,092	34,969	55,694	51,071	51,103	127,309	138,152	113,735
Kentucky.....	8,000	10,478	11,036	17,573	15,507	16,445	43,782	42,225	37,045
Tennessee.....	7,341	11,354	11,861	15,865	15,554	16,148	41,244	48,707	41,039
Alabama.....	4,590	5,918	6,284	11,383	10,180	9,527	21,946	23,437	19,467
Mississippi.....	4,563	6,342	5,788	10,863	9,830	8,982	20,337	23,783	16,186
West South Central.....	29,176	38,919	43,835	54,701	57,329	60,998	163,644	157,008	160,426
Arkansas.....	5,183	6,955	7,164	9,674	9,111	9,870	26,487	28,186	23,923
Louisiana.....	3,259	3,764	3,907	5,830	5,711	5,434	14,423	13,136	10,472
Oklahoma.....	8,015	11,137	13,023	15,337	16,817	19,670	45,357	45,440	51,477
Texas.....	12,720	18,063	19,741	23,860	25,830	26,025	73,778	70,264	74,552
Mountain.....	5,467	9,524	12,299	8,432	13,037	15,537	35,233	49,993	66,278
Montana.....	923	2,055	2,545	1,367	3,227	3,067	5,950	11,858	13,403
Idaho.....	1,012	1,655	2,029	1,589	2,250	2,540	6,434	8,605	11,708
Wyoming.....	325	621	809	495	894	1,121	2,071	3,166	4,337
Colorado.....	1,644	2,875	3,752	2,585	3,881	5,006	10,578	14,172	18,561
New Mexico.....	510	714	937	894	921	1,123	2,961	3,063	4,075
Arizona.....	253	495	636	374	569	756	1,732	2,525	3,741
Utah.....	674	955	1,367	947	1,107	1,644	4,645	5,709	9,017
Nevada.....	127	155	225	181	188	280	863	895	1,436
Pacific.....	9,623	16,474	21,877	14,014	20,939	25,507	68,944	100,106	160,595
Washington.....	2,204	3,548	5,363	3,611	4,860	7,059	16,374	21,357	42,030
Oregon.....	1,753	2,500	3,229	2,555	3,150	4,066	11,835	14,626	20,658
California.....	5,666	10,427	12,785	7,849	12,929	14,383	40,735	64,124	97,907

<sup>1</sup>Including estimates for incomplete reports<sup>2</sup>The figures for 1910 are exclusive of 4,171 pheasants and 3 India jungle fowls, which were included with chickens in the 1910 census report.

Source: Bureau of the Census, Department of Commerce.

## No. 631.—POULTRY: FARM PRICES AND RECEIPTS AT PRINCIPAL MARKETS

[Prices in cents per pound, receipts in thousands of pounds]

	1914- 1920, average	1922	1923	1924	1925	1926	1927	1928
Chickens, average farm price.....	18 0	19 1	19 0	19 2	20 3	21 9	20 3	21 2
Turkeys, average farm price, Nov 15.....	22 0	29 5	27 9	24 2	28 3	29 8	30 8	31 2
Dressed poultry, receipts								
Boston.....		44, 563	56, 013	61, 264	46, 720	53, 162	53, 305	55, 683
New York.....		138, 212	163, 948	179, 362	170, 257	192, 895	188, 117	194, 376
Philadelphia.....		21, 319	24, 611	27, 640	29, 295	32, 126	31, 822	31, 844
Chicago.....		73, 661	90, 273	88, 464	72, 086	77, 632	63, 735	67, 180

  

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec.
Chickens, average farm price.....												
1927.....	20 1	21 1	21 3	21 8	21 7	20 2	19 9	19 7	19 4	19 7	19 4	19 2
1928.....	19 6	20 1	20 1	20 8	21 5	21 5	21 9	21 6	22 3	22 0	21 5	21 2
Receipts of poultry, 1927.												
Boston.....	4, 318	3, 610	2, 440	2, 398	3, 653	3, 455	2, 996	3, 612	3, 404	4, 663	8, 511	10, 245
New York.....	12, 954	8, 957	8, 722	7, 770	11, 633	13, 635	12, 168	14, 589	15, 470	17, 682	31, 740	32, 797
Philadelphia.....	2, 885	2, 006	2, 005	1, 769	1, 695	1, 698	1, 398	1, 918	2, 530	2, 613	4, 432	6, 903
Chicago.....	6, 495	3, 546	2, 195	1, 835	2, 872	2, 257	1, 227	2, 257	2, 531	3, 752	15, 739	19, 029
Receipts of poultry, 1928												
Boston.....	4, 591	3, 756	4, 137	2, 877	3, 285	3, 290	3, 899	3, 468	3, 555	4, 680	7, 716	10, 329
New York.....	14, 999	11, 064	9, 322	9, 703	10, 628	11, 127	13, 252	13, 850	14, 332	21, 799	31, 846	32, 454
Philadelphia.....	2, 373	1, 601	1, 885	1, 359	1, 558	2, 177	1, 931	1, 763	2, 097	2, 965	4, 925	7, 210
Chicago.....	6, 639	3, 591	2, 216	1, 876	2, 137	1, 977	2, 771	2, 829	3, 580	5, 719	15, 301	18, 544

## No. 632.—EGGS: PRICES, RECEIPTS AT PRINCIPAL MARKETS, AND STORAGE

[Prices in cents per dozen, receipts and storage in thousands of cases]

	1910- 1914, aver- age	1921- 1925, aver- age	1926	1927	1928		1924	1926	1927	1928
Average farm price.....	22	31	31	28	27	Receipts.				
Wholesale prices.....						Boston.....	1, 829	1, 808	1, 960	1, 757
Western firsts, Boston.....	25	37	36	32	35	New York.....	6, 543	6, 818	7, 048	7, 288
Fresh firsts, New York.....	25	37	36	32	33	Philadelphia.....	1, 595	1, 566	1, 549	1, 735
Western extra firsts,.....						Chicago.....	4, 679	4, 575	4, 901	4, 601
Philadelphia.....	26	40	39	36	38	San Francisco.....	760	744	750	756
Fresh firsts, Chicago.....	22	34	34	30	32	Total cold-storage hold- ings				
Fresh extras, San Francisco.....	32	41	36	32	33	July 31.....	9, 267	9, 845	10, 746	10, 496
Average export value.....	22	29	29	27	30	Dec 31.....	1, 050	1, 096	882	1, 415

  

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct.	Nov	Dec
Average farm price.....												
1926.....	36	29	24	25	25	26	26	26	32	37	45	48
1927.....	37	29	21	20	20	18	21	23	29	36	42	43
1928.....	38	29	23	23	24	24	26	27	31	35	40	43
Wholesale price, fresh firsts, New York												
1927.....	42	32	25	26	23	23	25	28	34	40	44	45
1928.....	45	32	29	28	30	29	30	31	33	32	37	37
Receipts, 1927												
Boston.....	120	153	245	307	270	234	155	128	109	92	65	82
New York.....	458	542	833	1, 094	1, 038	716	521	441	386	355	319	315
Philadelphia.....	96	100	183	244	211	158	119	114	117	80	68	59
Chicago.....	243	326	628	1, 002	935	594	363	253	231	127	101	96
San Francisco.....	54	57	78	83	69	65	68	66	54	50	50	56
Receipts, 1928												
Boston.....	102	145	229	211	258	200	158	112	96	96	78	72
New York.....	412	613	931	1, 052	1, 089	767	591	494	407	392	288	272
Philadelphia.....	97	133	176	210	246	175	168	117	140	103	75	95
Chicago.....	200	368	592	813	849	562	356	284	241	150	75	113
San Francisco.....	52	63	106	75	61	59	61	60	54	52	49	55

## No. 633.—COLD-STORAGE HOLDINGS OF ANIMAL PRODUCTS AND FROZEN FISH

NOTE.—All figures are in thousands of pounds, except cases of eggs and total meats, which are in thousands of cases and millions of pounds, respectively. Holdings are as of 1st of each month. Beef and pork figures include frozen, cured, and in process of cure.

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov.	Dec
<b>Creamery butter</b>												
1924-----	30,299	15,246	9,847	7,842	8,913	22,348	74,184	134,118	156,440	153,494	135,018	100,832
1925-----	65,694	45,748	28,789	10,875	3,739	3,036	63,087	109,075	128,403	114,172	94,916	74,754
1926-----	52,785	39,381	26,313	17,392	17,527	30,561	86,897	131,152	135,131	125,942	103,971	84,381
1927-----	34,947	17,952	7,952	3,044	3,436	25,404	89,996	145,147	163,701	147,396	118,679	83,234
1928-----	46,289	28,273	14,404	5,716	5,109	15,952	69,750	120,437	136,175	128,071	105,811	70,985
<b>American cheese</b>												
1924-----	49,566	40,506	35,160	28,294	26,202	27,172	45,239	65,864	76,406	73,153	67,905	58,705
1925-----	49,187	41,552	34,647	27,716	26,147	29,550	46,468	66,634	76,512	78,582	71,913	66,495
1926-----	58,457	50,339	42,587	38,041	35,587	39,346	54,069	73,681	81,297	77,646	72,491	63,881
1927-----	54,596	46,026	39,882	35,193	32,487	35,826	49,999	67,091	69,749	65,453	59,035	53,447
1928-----	47,765	41,793	36,784	31,887	30,207	36,716	53,046	73,088	83,908	81,833	82,618	74,326
<b>All varieties of cheese</b>												
1924-----	67,221	57,232	50,388	42,413	40,235	42,644	61,755	84,073	95,211	91,282	88,043	77,594
1925-----	67,558	58,461	50,117	40,480	39,037	42,888	61,992	83,508	95,472	97,777	90,866	84,561
1926-----	76,649	67,631	58,175	51,285	47,450	52,167	68,771	90,053	98,738	95,385	89,785	81,084
1927-----	72,055	62,136	54,072	47,840	45,616	50,864	67,216	87,937	90,204	85,131	77,603	70,735
1928-----	64,035	55,862	48,784	43,303	41,791	48,990	68,613	89,708	101,498	98,339	97,421	89,970
<b>Cases of eggs</b>												
1924-----	1,927	500	44	579	3,563	6,875	8,685	9,267	8,778	7,409	5,267	3,102
1925-----	1,050	81	21	1,240	4,872	7,712	9,453	10,024	9,873	8,612	6,322	3,786
1926-----	1,983	578	77	872	3,735	7,236	9,133	9,845	9,573	8,048	5,888	3,215
1927-----	1,096	253	92	1,868	5,501	8,962	10,565	10,746	9,650	7,960	5,485	2,956
1928-----	882	26	66	1,087	4,515	8,168	10,002	10,496	9,944	8,542	6,247	3,542
<b>Frozen eggs:</b>												
1924-----	32,087	27,682	23,106	20,736	23,707	29,956	33,565	35,184	34,128	31,006	26,663	22,100
1925-----	21,303	16,292	11,364	11,353	19,579	29,544	38,379	42,855	47,099	44,299	34,314	39,336
1926-----	33,905	29,256	24,167	21,849	25,739	31,815	45,688	51,810	52,634	51,062	44,966	38,620
1927-----	33,593	31,207	26,053	33,272	52,053	71,605	81,263	81,418	77,508	71,208	62,066	54,703
1928-----	47,020	38,575	31,362	34,411	51,632	67,941	77,744	81,670	89,196	82,255	73,327	64,201
<b>Frozen poultry</b>												
1924-----	93,434	99,486	93,497	76,067	52,068	39,299	34,886	33,604	33,937	40,070	55,139	87,939
1925-----	133,990	138,189	130,513	108,608	82,732	68,126	58,562	53,558	47,946	44,345	53,787	86,733
1926-----	111,501	108,512	95,897	73,124	52,783	42,808	36,730	35,793	38,634	44,771	64,842	106,854
1927-----	144,497	145,076	129,510	104,697	77,282	61,525	50,064	42,293	39,711	43,201	52,315	85,080
1928-----	117,490	118,154	103,494	83,169	56,832	43,872	38,230	40,395	40,749	43,578	58,093	79,173
<b>Beef</b>												
1924-----	105,577	102,655	100,077	93,274	78,423	66,069	59,418	49,812	48,906	47,538	67,244	100,239
1925-----	142,964	140,705	130,809	116,518	96,223	74,618	61,654	49,674	45,214	40,719	47,481	73,564
1926-----	84,996	80,538	77,690	70,781	59,678	52,579	48,688	46,048	41,697	46,250	61,198	85,977
1927-----	100,873	95,254	88,020	77,159	62,928	50,413	43,756	35,722	33,449	35,878	43,916	65,345
1928-----	76,947	71,651	63,749	57,256	46,194	37,212	32,238	32,442	31,056	37,228	58,036	79,633
<b>Pork</b>												
1924-----	708,869	800,890	878,086	932,408	908,332	891,109	872,638	810,585	710,871	565,173	407,731	427,520
1925-----	647,364	778,792	865,355	829,557	814,189	748,418	738,655	669,536	583,789	467,378	392,605	385,027
1926-----	472,219	556,042	609,847	626,594	603,798	574,472	602,176	642,673	623,086	514,351	405,623	388,228
1927-----	472,787	589,071	671,674	738,446	770,212	787,850	844,275	841,271	766,418	608,767	467,119	419,822
1928-----	523,425	655,638	885,916	997,737	960,672	919,366	915,360	819,185	682,015	515,087	433,160	461,762
<b>All meats:</b>												
1924-----	900	988	1,063	1,108	1,064	1,028	1,005	931	826	672	536	598
1925-----	889	1,020	1,106	1,042	1,000	905	878	790	695	562	486	511
1926-----	618	696	746	753	714	677	706	748	725	619	522	531
1927-----	642	751	823	879	894	900	953	945	867	705	563	541
1928-----	666	796	1,025	1,133	1,079	1,023	1,013	917	772	604	548	607
<b>Lard</b>												
1924-----	49,340	54,130	68,610	85,722	102,317	127,949	152,520	149,672	124,676	84,198	31,706	35,713
1925-----	61,049	112,704	151,927	150,182	151,499	138,295	145,919	145,924	114,724	71,626	37,256	33,710
1926-----	42,478	64,187	76,145	93,108	98,365	106,824	120,527	153,572	151,233	105,558	72,355	46,744
1927-----	49,992	69,576	77,103	92,069	99,611	111,976	147,318	179,136	167,018	118,174	72,121	46,154
1928-----	54,855	84,007	121,882	164,506	173,088	186,073	214,479	204,939	177,888	126,890	53,474	67,257
<b>Frozen fish</b>												
1924-----	52,627	40,421	29,571	21,489	21,840	27,115	36,038	49,026	56,607	67,025	70,406	68,320
1925-----	55,308	44,034	29,865	22,442	23,749	31,980	40,458	47,474	55,447	58,358	61,849	58,048
1926-----	48,181	37,878	24,894	16,154	21,540	31,345	45,606	57,627	64,657	70,310	75,034	69,854
1927-----	58,655	48,684	34,887	24,731	29,782	36,696	42,118	54,061	60,330	65,960	66,790	64,787
1928-----	53,921	44,877	34,528	26,473	26,513	40,946	53,140	66,170	71,352	73,410	77,677	78,090

1 Holdings of frozen fish are for the 15th of each month

Source Bureau of Agricultural Economics, Department of Agriculture

## No. 634.—WOOL: PRICES, VALUE OF IMPORTS, AND RECEIPTS AT BOSTON

	1910- 1913, average	1914- 1920, average	1923	1924	1925	1926	1927	1928
Prices (cents per pound)								
Average United States farm price, unwashed.....	18	38	39	37	38	32	31	37
Ohio and Pennsylvania, fine clothing, unwashed, at Boston.....	23	46	51	48	49	40	37	38
Territory, fine staple scoured, at Boston.....	60	127	141	141	139	116	110	116
Value of United States im- ports (thous of dollars)								
Clothing <sup>1</sup> .....	15, 659	140, 084	11, 406	8, 129	10, 908	5, 371	6, 020	8, 051
Combing <sup>1</sup> .....	3, 994	5, 901	89, 181	48, 393	82, 543	65, 915	38, 265	31, 729
Carpet.....	13, 540	25, 380	26, 304	34, 175	47, 233	30, 103	37, 470	37, 947
Receipts at Boston (thous- ands of pounds)								
Total.....	290, 150	424, 336	417, 098	312, 015	305, 619	346, 931	344, 548	300, 923
Domestic.....	206, 047	184, 380	145, 132	200, 240	131, 446	169, 270	218, 189	210, 551
Foreign.....	84, 103	239, 956	271, 966	111, 775	174, 173	177, 661	126, 359	90, 372

<sup>1</sup> Owing to changes in tariff laws in 1922 much wool which was formerly brought in as "clothing" now comes in under "combing" classification

Sources: Prices and receipts, Bureau of Agricultural Economics, Department of Agriculture, imports, Bureau of Foreign and Domestic Commerce, Department of Commerce

## No. 635.—WOOL: PRODUCTION, IMPORTS, AND EXPORTS OF THE UNITED STATES

NOTE.—All figures in thousands of pounds Production is for calendar years, and beginning with 1900 includes pulled wool, previously included only fleeces Exports and imports for 1839 are for the fiscal year ended Sept 30, for yearly averages and years to and including 1915, for fiscal years ended June 30, subsequently, calendar years. Imports prior to 1915 and domestic exports beginning 1923 include hair of the camel, Angora goat, alpaca, and other like animals

Yearly average or year	Production	Imports <sup>1</sup>	Exports		Yearly average or year	Production	Imports <sup>1</sup>	Exports	
			Domestic	Foreign				Domestic	Foreign
1839.....	35, 802	7, 925	-----	119	1901.....	302, 502	103, 584	200	3, 591
1849.....	52, 517	17, 869	160	47	1902.....	316, 341	166, 577	123	3, 105
1859.....	60, 265	24, 471	1, 707	41	1903.....	287, 450	177, 138	519	2, 993
1862-1870.....	100, 102	49, 230	153	1, 710	1904.....	291, 783	173, 743	320	2, 863
1871-1880.....	187, 093	68, 030	152	3, 939	1905.....	295, 488	249, 136	124	2, 438
1881-1890.....	280, 151	93, 195	115	4, 294	1906.....	298, 915	201, 689	192	5, 450
1891-1895.....	309, 409	142, 319	1, 077	3, 637	1907.....	298, 295	203, 848	215	3, 232
1896-1900.....	275, 154	189, 445	3, 244	6, 015	1908.....	311, 138	125, 981	182	5, 684
1901-1905.....	298, 713	174, 035	257	2, 998	1909.....	330, 420	266, 409	28	3, 496
1906-1910.....	312, 026	212, 371	133	4, 374	1910.....	321, 363	263, 928	48	4, 008
1911-1915.....	298, 937	215, 354	1, 714	4, 562	1911.....	318, 548	137, 648	-----	8, 206
1916-1920.....	290, 918	399, 980	3, 568	4, 276	1912.....	304, 043	193, 401	-----	1, 720
1921-1925.....	277, 455	334, 158	699	12, 779	1913.....	296, 175	195, 293	77	4, 432
1885.....	308, 000	70, 596	88	3, 115	1914.....	290, 192	247, 649	335	1, 205
1886.....	302, 000	129, 085	2, 138	6, 534	1915.....	285, 726	302, 782	8, 158	7, 247
1887.....	295, 000	114, 038	6, 268	6, 728	1916.....	288, 490	442, 650	3, 919	2, 128
1888.....	269, 000	113, 559	22	4, 360	1917.....	281, 892	416, 137	1, 827	1, 272
1889.....	265, 000	126, 488	142	3, 263	1918.....	298, 870	447, 426	407	4, 452
1890.....	269, 827	105, 431	231	3, 288	1919.....	298, 258	438, 782	2, 840	5, 134
1891.....	285, 000	129, 804	292	2, 638	1920.....	287, 079	254, 905	8, 845	12, 393
1892.....	294, 000	145, 671	232	3, 008	1921.....	283, 629	316, 605	1, 927	1, 552
1893.....	348, 538	172, 434	92	4, 219	1922.....	263, 713	366, 538	453	4, 225
1894.....	325, 211	55, 153	520	5, 977	1923.....	268, 193	338, 345	535	23, 557
1895.....	294, 297	206, 034	4, 279	2, 343	1924.....	279, 375	262, 655	309	27, 476
1896.....	272, 475	230, 911	6, 946	6, 026	1925.....	292, 362	336, 646	273	7, 087
1897.....	259, 153	350, 852	5, 272	3, 428	1926.....	311, 576	299, 451	292	14, 074
1898.....	269, 721	132, 795	121	2, 505	1927.....	332, 014	264, 507	323	10, 711
1899.....	272, 191	76, 736	1, 683	12, 413	1928.....	351, 013	240, 360	485	4, 435
1900.....	305, 231	155, 928	2, 200	5, 702					

<sup>1</sup> For 1859, 1862 to 1868, inclusive, and 1872, includes estimates for quantity of wool on pelts imported

<sup>2</sup> One year only, 1870

Source: Production, 1839, 1849, 1859, and 1870, Bureau of the Census, other years, reports of the Department of Agriculture, imports and exports, Bureau of Foreign and Domestic Commerce.

## No. 636.—WOOL· ESTIMATED PRODUCTION AND WEIGHT PER FLEECE

NOTE.—Only States with a production in 1928 of 2,500,000 pounds of wool are shown separately. The divisions shown include the States comprising the following divisions: North Atlantic, the New England and Middle Atlantic; North Central, the East North Central and West North Central; South Central, the East South Central and West South Central, Far Western, the Mountain and Pacific

Division and State	Production in thousands of pounds						Average weight per fleece <sup>1</sup> (pounds) 1928
	1923	1924	1925	1926	1927	1928	
United States.....	225,696	235,575	245,562	260,976	281,914	299,113	7 8
North Atlantic.....	6,591	6,489	6,735	6,981	6,777	7,002	7 2
New York.....	2,599	2,708	2,898	3,081	2,956	2,966	7 2
Pennsylvania.....	2,990	2,766	2,805	2,805	2,730	2,948	7 5
North Central.....	51,106	52,925	55,410	58,215	63,645	66,208	7 9
Ohio.....	13,699	14,167	14,467	14,760	15,662	15,826	8 2
Indiana.....	3,380	3,391	3,562	3,715	4,088	4,307	7 3
Illinois.....	2,978	3,334	3,419	3,648	4,162	3,724	7 6
Michigan.....	6,473	6,880	7,416	7,920	8,272	8,520	8 0
Wisconsin.....	2,131	2,109	2,250	2,508	2,774	2,808	7 8
Minnesota.....	2,645	2,886	3,151	3,634	4,211	4,661	7 9
Iowa.....	5,242	5,300	5,260	5,440	5,896	5,960	8 0
Missouri.....	5,396	5,236	5,208	5,250	5,528	5,902	7 2
North Dakota.....	1,440	1,853	2,263	2,772	3,489	3,984	8 3
South Dakota.....	4,466	4,312	4,446	4,714	5,160	5,644	8 3
South Atlantic.....	4,932	4,690	4,804	5,057	5,375	5,797	5 1
West Virginia.....	2,361	2,236	2,272	2,311	2,457	2,684	5 4
South Central.....	25,214	30,239	30,898	33,049	39,166	42,332	7 4
Kentucky.....	2,889	2,880	3,125	3,278	3,845	4,051	4 7
Texas.....	19,699	24,806	25,280	27,297	32,725	35,591	8 4
Far Western.....	137,853	141,242	147,715	157,674	166,952	177,774	8 0
Montana.....	18,751	19,522	20,640	23,320	24,166	26,626	8 6
Idaho.....	14,952	14,450	14,309	14,507	15,840	17,885	9 2
Wyoming.....	18,293	19,090	21,862	22,338	25,317	26,488	8 8
Colorado.....	6,486	6,486	6,862	7,740	8,118	8,881	7 6
New Mexico.....	10,647	11,224	11,084	12,060	12,600	12,400	5 8
Arizona.....	7,202	6,448	6,458	6,738	6,240	5,760	6 0
Utah.....	17,168	17,970	18,010	19,430	19,975	22,072	8 9
Nevada.....	8,413	7,597	7,560	8,730	8,015	8,550	7 5
Washington.....	4,027	4,365	4,560	4,194	4,753	5,000	10 0
Oregon.....	14,790	15,840	16,958	18,321	18,128	20,332	9 2
California.....	17,124	18,260	19,912	20,276	23,800	23,800	6 8
Pulled wool <sup>2</sup> .....	42,500	43,800	46,800	49,600	50,100	51,900	-----

<sup>1</sup> In States where sheep are shorn twice a year this figure covers wool per head of sheep shorn and not weight per fleece

<sup>2</sup> Estimated from returns of plants pulling from 80 to 90 per cent of all wool

## No. 637.—WOOL CONSUMED IN MANUFACTURES: 1924 to 1928

NOTE.—All figures in thousands of pounds. These figures do not include the consumption of one large and several small concerns. The grease equivalent of the totals shown below is as follows: 1924, 537,760,000 pounds; 1925, 526,285,243; 1926, 510,032,772; 1927, 551,528,052; 1928, 538,354,229

Class and grade	Total					1928		
	1924	1925	1926	1927	1928	Grease	Scoured	Pulled
Total.....	460,402	450,021	438,356	477,118	465,018	371,423	63,807	30,388
Domestic.....	230,323	213,134	200,662	257,104	271,215	203,759	47,064	20,392
Foreign.....	230,079	236,887	237,694	220,014	193,803	167,664	16,143	9,996
Combing.....								
Domestic.....	164,611	147,837	139,142	186,815	200,152	185,042	5,607	9,503
Foreign.....	85,740	90,025	105,843	80,480	48,859	44,585	3,828	946
Clothing.....								
Domestic.....	65,712	65,297	61,520	70,289	71,063	18,717	41,457	10,889
Foreign.....	20,885	15,052	12,823	10,616	9,117	1,641	6,734	742
Clothing and combing combined.....								
Fine.....	109,004	102,745	102,754	120,153	118,099	101,774	12,269	4,056
One-half blood.....	57,440	54,117	51,341	56,269	61,535	45,627	10,412	5,496
Three-eighths blood.....	68,438	66,017	67,560	67,322	63,018	42,054	14,129	6,835
One-fourth blood.....	77,955	72,843	69,150	67,947	61,273	41,415	15,511	4,347
Low or Lincoln.....	24,061	22,489	28,523	36,509	25,266	19,115	4,805	1,346
Carpet.....	123,504	131,810	119,028	128,918	135,827	121,438	6,081	8,308

Sources: Table 636, Bureau of Agricultural Economics, Department of Agriculture; Table 637, Bureau of the Census, Department of Commerce

### No. 638.—ANIMAL FOOD MANUFACTURING INDUSTRIES: MATERIALS USED AND PRODUCTS

NOTE.—Only major materials and products are shown. The figures for products in some cases include and in other cases exclude data for the specified commodities made as secondary products by establishments classified in other industries, and in the cases of certain commodities the data for these secondary products are included beginning in 1925 but not for 1914. No data for establishments having products under \$5,000 in value are included beginning 1925, this change has little effect on comparability with 1914.

Industry, material, and product	Quantity (thousands of units specified)				Cost or value (thousands of dollars)		
	Unit	1914	1925	1927	1914	1925	1927
<b>BUTTER, CHEESE, AND CONDENSED MILK</b>							
<b>Materials used, total cost.....</b>					<b>315,026</b>	<b>847,006</b>	<b>884,845</b>
Milk.....	Pounds	8,431,426	(1)	(1)	114,298	(1)	(1)
Cream.....	do	2,384,035	(1)	(1)	160,934	(1)	(1)
Skimmed milk.....	do	525,041	(1)	(1)	994	(1)	(1)
All other.....					38,800	(1)	(1)
<b>All products, total value.....</b>					<b>364,285</b>	<b>979,253</b>	<b>1,068,832</b>
Butter.....	Pounds	769,810	1,455,625	1,564,227	218,021	636,749	695,625
Cheese, total.....	do	370,279	545,822	518,198	50,377	112,819	110,162
Cheese, other than cottage, pot, and bakers'.....	do	332,691	494,773	449,444	47,433	108,587	104,220
Cheese, cottage, pot, and bakers'.....	do	37,588	51,050	68,754	2,944	4,232	5,942
Condensed and evaporated milk, total.....	do	873,411	1,813,843	2,097,300	58,747	145,304	167,850
Condensed, sweetened.....	do	267,870	430,698	378,687	21,585	38,745	34,251
Condensed, unsweetened.....	do	331,893			19,928		
Evaporated.....	do	273,648	1,383,145	1,718,613	17,234	106,559	133,599
Casein dried.....	do	18,570	21,978	23,516	978	2,299	3,052
Powdered milk, cream, etc.....	do	20,454	111,632	183,336	1,968	11,967	19,737
Sugar of milk.....	do	4,051	6,126	5,406	401	890	644
Other products.....					33,793	69,225	71,762
<b>SLAUGHTERING AND MEAT PACKING</b>							
<b>Materials used, total cost.....</b>					<b>1,441,663</b>	<b>2,625,192</b>	<b>2,663,740</b>
Animals slaughtered.....							
Beoves.....	Number	7,149	10,854	10,725	490,108	(1)	(1)
Calves.....	do	2,019	5,776	8,477	27,623	(1)	(1)
Sheep and lambs.....	do	15,944	13,616	14,389	84,784	(1)	(1)
Hogs.....	do	34,442	48,073	47,492	597,098	(1)	(1)
Dressed meats purchased.....		(1)	(1)	(1)	124,335	(1)	(1)
All other materials.....		(1)	(1)	(1)	117,715	(1)	(1)
<b>All products, total value.....</b>					<b>1,651,965</b>	<b>3,060,286</b>	<b>3,057,216</b>
<b>Fresh meat</b>							
Beef.....	Pounds	3,658,334	5,064,508	5,069,619	421,297	661,103	762,614
Veal.....	do	194,699	575,963	549,685	26,299	87,189	98,489
Mutton and lamb.....	do	629,233	521,993	547,473	74,676	128,213	130,283
Pork.....	do	1,877,099	2,827,926	3,110,253	226,536	516,469	517,863
Edible offal and other fresh meats.....	do	280,091	540,291	568,501	17,647	50,965	54,983
<b>Cured meat:</b>							
Beef.....	do	91,572	84,197	102,738	14,395	17,911	22,905
Pork.....	do	2,929,310	3,295,937	3,134,172	393,666	751,804	602,726
Canned meats and canned sausage.....	do	234,803	118,576	144,198	36,263	24,334	27,324
Sausage (not canned) and sausage casings, meat puddings, head cheese, scrapple, etc.....	do	546,940	995,278	1,033,885	71,916	196,743	203,126
Lard.....	do	1,119,189	1,672,334	1,794,636	120,414	279,625	234,864
Cattle hides.....	do	415,891	621,381	616,714	69,959	80,797	99,218
Calfskins.....	do	18,648	56,092	53,581	3,513	11,069	11,160
Sheep pelts.....	Number	15,917	10,832	8,961	13,624	22,553	15,964
All other skins.....	Pounds	(1)	1,054	3,242	389	101	324
Wool.....	do	26,432	32,235	30,439	7,938	23,429	18,478
All other products.....					153,493	197,982	256,395

<sup>1</sup> Not reported separately

Source: Bureau of the Census, Department of Commerce.

## 28.—FARM CROPS AND FOODSTUFFS

[In general, data in this section other than on foreign trade relate to continental United States, while foreign trade statistics represent the trade of the customs area (see general note, p. 482). Any exceptions are noted. For weights of the units of measurement for the principal products see Appendix, p. 850]

### No. 639.—INDEX NUMBERS OF THE MASS OF CROP PRODUCTION

NOTE.—Average production of 1910-1914 equals 100. Production of wheat, corn, oats, barley, rye, buckwheat, potatoes, hay, tobacco, and cotton for each crop each year is multiplied by a constant price, and the aggregate is divided by the average aggregate of base years

Period or year	Production index	Year	Production index	Year	Production index	Year	Production index
1890-1894	62	1896	77	1907	89	1918	107
1895-1899	78	1897	75	1908	94	1919	108
1900-1904	85	1898	85	1909	94	1920	117
1905-1909	94	1899	82	1910	97	1921	100
1910-1914	100	1900	81	1911	91	1922	110
1915-1919	108	1901	74	1912	110	1923	110
1920-1925	110	1902	91	1913	95	1924	111
1892	62	1903	84	1914	107	1925	112
1893	61	1904	92	1915	116	1926	114
1894	62	1905	94	1916	100	1927	115
1895	71	1906	99	1917	108	1928	120

### No. 640.—INDEX NUMBERS OF CROP YIELDS

NOTE.—Index numbers each year are relative to the average yield for the 10 preceding years; data for the several States are weighted according to crop values in 1919

Year	United States	North Atlantic	North Central	South Atlantic	South Central	Western
1912	107 7	106 8	( <sup>1</sup> )	103.6	105 8	102.9
1913	93 3	95 5	90 7	103 5	92 3	95.1
1914	102 3	109 3	99.4	105 1	103 1	102.6
1915	108 0	98 9	114 4	99 6	103 8	102 1
1916	95 1	108.9	92 6	102 9	88 0	97.7
1917	102 0	104 6	107 3	100 7	93 0	91.2
1918	97 6	101.2	103.6	100 3	83 6	85 3
1919	99 8	104 8	100 4	93 1	105 5	88.5
1920	106 9	107 9	109 8	100.4	107 4	96 9
1921	91 7	90 3	92.9	80 8	92 9	98 3
1922	96 7	104 1	103 0	84.4	89 9	95 5
1923	96 1	100.3	101 0	90.6	82 8	106.8
1924	98 1	107 3	102 7	88 4	97 6	86 2
1925	99 6	104.3	97 8	91.9	92 4	103 9
1926	104 6	105 1	91 9	108.4	121 5	103 2
1927	102 5	102 3	101 7	98.3	99 3	111 6
1928	103 5	102 1	106 1	97.2	99 1	108.7

<sup>1</sup>The weighted index for the North Central as a whole is not available, but indexes for the two divisions which comprise the North Central are. East North Central, 106.1, West North Central, 117.3

### No. 641.—AVERAGE VALUE PER ACRE OF 10 LEADING CROPS COMBINED

NOTE.—Corn, wheat, oats, barley, rye, buckwheat, potatoes, hay, tobacco, and cotton. These comprise nearly 90 per cent of the area in all field crops, and their average value closely approximates the value per acre of the aggregate of all crops. The value is based on average farm price of Dec. 1

Period	Average crop value per acre	Year	Average crop value per acre	Year	Average crop value per acre	Year	Average crop value per acre
1866-1870	\$14.70	1893	\$9.50	1905	\$13.28	1917	\$33.27
1871-1875	14 05	1894	9 06	1906	13 46	1918	33.73
1876-1880	11 89	1895	8 12	1907	14 74	1919	35.74
1881-1885	11 33	1896	7 94	1908	15 32	1920	23.26
1886-1890	9 97	1897	9 07	1909	16 00	1921	14.45
1891-1895	9 71	1898	9 00	1910	15.53	1922	19.23
1896-1900	9 09	1899	9 13	1911	15 36	1923	21.52
1901-1905	12 53	1900	10 31	1912	16 09	1924	23 88
1906-1910	15 01	1901	11 43	1913	16 49	1925	21.17
1911-1915	16 31	1902	12 07	1914	16.44	1926	19.07
1916-1920	29 72	1903	12 62	1915	17.18	1927	20 92
1921-1925	20 05	1904	13.26	1916	22 58	1928	20.32

Source of Tables 639, 640, and 641 Bureau of Agricultural Economics, Department of Agriculture.

## No. 642.—PRODUCTION OF PRINCIPAL AGRICULTURAL COMMODITIES

NOTE.—Blank lines indicate that data are not available. All crops are for calendar years except sugar, which is for the crop year ending July of year specified.

Year	Corn	Wheat	Rice <sup>1</sup>	Sugar		Cotton <sup>2</sup>		Wool
				Beet	Cane	Running bales <sup>3</sup>	500-pound bales <sup>4</sup>	
	1,000 bushels	1,000 bushels	1,000 pounds	1,000 pounds	1,000 pounds	Thousands	Thousands	1,000 pounds
1800.....			67,234			154	73	
1810.....			58,805			286	178	
1820.....			53,292			376	335	
1830.....			81,352			1,026	732	
1840.....	377,532	84,823	84,253		120,851	1,635	1,348	35,802
1850.....	592,071	100,486	102,776		247,577	2,454	2,136	52,517
1855.....			103,606		414,725	3,666	3,221	
1860.....	838,793	173,105	106,279		230,982	3,849	3,841	60,265
1865.....			10,246		11,200	2,269	2,094	142,000
1870.....	1,094,255	235,885	54,889	7806	87,042	4,352	4,025	100,102
1875.....	1,321,069	292,136	83,261		142,242	4,632	4,303	181,000
1879.....	1,823,163	499,893	85,597	448	250,880	5,755	5,466	211,000
1880.....	1,717,435	498,550	111,869	2,688	178,872	6,606	6,367	240,682
1881.....	1,194,916	383,280	102,605		285,302	5,456	5,136	240,000
1882.....	1,617,025	504,185	99,985	1,120	171,076	6,950	6,833	272,000
1883.....	1,551,067	421,086	110,700		318,746	5,713	5,522	290,000
1884.....	1,795,523	512,765	109,562	1,198	302,944	5,682	5,477	300,000
1885.....	1,936,176	357,112	150,195	2,134	225,962	6,576	6,369	308,000
1886.....	1,665,441	457,218	155,670	1,344	302,754	6,505	6,315	302,000
1887.....	1,456,161	456,329	113,631	1,792	191,282	7,047	6,885	285,000
1888.....	1,987,790	415,868	124,733	572	375,904	6,938	6,924	269,000
1889.....	1,998,648	434,383	131,722	4,168	344,756	7,473	7,473	265,000
1890.....	1,460,406	378,097	136,800	4,934	301,284	8,653	8,562	269,827
1891.....	2,055,823	584,504	155,666	7,748	497,170	9,035	8,941	285,000
1892.....	1,713,688	527,987	127,547	12,004	370,580	8,700	6,658	294,000
1893.....	1,707,572	427,553	122,865	27,084	498,456	7,493	7,433	348,538
1894.....	1,339,680	516,485	109,821	45,192	610,826	9,901	10,026	325,211
1895.....	2,310,952	569,456	168,665	45,006	729,394	7,161	7,147	294,297
1896.....	2,503,484	544,193	96,886	65,452	643,636	8,533	8,516	272,475
1897.....	2,144,553	610,254	116,302	84,080	644,176	10,898	10,985	259,153
1898.....	2,261,119	772,163	136,991	90,492	708,252	11,189	11,435	266,721
1899.....	2,454,628	636,051	219,278	72,736	686,788	9,393	9,345	272,191
1900.....	2,505,148	602,708	253,139	163,458	322,548	10,102	10,123	305,231
1901.....	1,613,528	788,638	388,035	172,164	322,772	9,583	9,510	302,502
1902.....	2,619,499	724,808	319,293	369,212	728,650	10,588	10,631	316,341
1903.....	2,346,897	663,923	560,750	436,812	745,806	9,820	9,851	287,450
1904.....	2,528,662	596,911	586,005	481,208	556,140	13,451	13,438	291,783
1905.....	2,748,949	726,819	377,975	484,226	829,990	10,495	10,575	295,488
1906.....	2,897,662	756,775	495,976	625,842	781,204	12,983	13,274	298,915
1907.....	2,512,065	637,981	520,804	967,224	544,320	11,058	11,107	298,295
1908.....	2,544,957	644,656	608,060	927,256	788,480	13,086	13,242	311,138
1909.....	2,572,336	700,434	572,421	851,768	828,800	10,073	10,005	330,420
1910.....	2,886,260	635,121	680,839	1,024,938	663,452	11,568	11,609	321,363
1911.....	2,531,488	621,338	637,061	1,020,344	710,080	15,553	15,693	318,543
1912.....	3,124,746	730,267	695,959	1,199,000	721,748	13,489	13,703	304,048
1913.....	2,446,988	763,380	715,117	1,385,112	325,147	13,983	14,156	296,175
1914.....	2,672,804	891,017	656,922	1,466,802	601,075	15,906	16,135	290,192
1915.....	2,994,793	1,025,801	804,090	1,444,108	493,028	11,068	11,192	285,726
1916.....	2,566,627	636,318	1,135,037	1,748,440	277,240	11,364	11,450	288,490
1917.....	3,065,283	636,655	964,980	1,641,314	621,799	11,248	11,302	281,892
1918.....	2,502,665	921,438	1,072,397	1,530,414	491,680	11,906	12,041	298,870
1919.....	2,811,302	967,979	1,166,259	1,521,900	568,800	11,326	11,421	298,258
1920.....	3,208,584	833,027	1,446,289	1,452,902	444,250	13,271	13,440	287,079
1921.....	3,068,569	814,905	1,044,778	2,178,000	352,204	7,978	7,954	283,629
1922.....	2,906,020	807,598	1,150,139	2,041,000	655,399	9,729	9,762	263,713
1923.....	3,053,557	797,394	936,583	1,350,000	591,000	10,171	10,140	268,196
1924.....	2,309,414	864,428	902,722	1,782,000	330,000	13,639	13,623	279,375
1925.....	2,916,106	676,765	925,250	2,180,000	176,000	16,123	16,104	292,362
1926.....	2,691,531	831,381	1,159,167	1,826,000	279,763	17,755	17,977	311,576
1927.....	2,763,093	878,374	1,243,722	1,794,000	94,332	12,783	12,956	332,014
1928 (prel).....	2,839,959	902,749	1,163,361	2,186,000	141,586	14,297	14,478	351,013

<sup>1</sup> Cleaned rice for 1800 to 1903 represents commercial movement, as given by Dan Talmage's Sons Co.

<sup>2</sup> Figures for the years 1810 to 1898 include linters excluded in subsequent years.

<sup>3</sup> Counting round as half bales.

<sup>4</sup> Equivalent 500-pound bales, gross weight.

<sup>5</sup> Exports.

<sup>6</sup> Census figures for the previous year.

<sup>7</sup> Mean annual production not exceeding quantity stated.

<sup>8</sup> Louisiana only.

Sources: Cotton, 1899 to date, Bureau of the Census, Department of Commerce; other figures, Bureau of Agricultural Economics, Department of Agriculture.



**No. 643.—CROP VALUES: COMPARATIVE STATEMENT SHOWING CHANGE BETWEEN 1919 AND 1924 DUE TO PRODUCTION, AND DECREASE BETWEEN 1919 AND 1924 RESULTING FROM LOWER PRICES: CENSUS STATISTICS**

NOTE—Crops not reported by quantity are omitted

[All amounts in thousands of dollars]

Crop	Value of crops <sup>1</sup>			Increase or decrease in crop values, 1919 to 1924 <sup>2</sup>					
	As reported, 1919	Computed for 1924 on basis of 1919 prices	As reported, 1924	Gross change <sup>3</sup>		Change due to production <sup>4</sup>		Decrease due to lower prices <sup>5</sup>	
				Amount	Per cent	Amount	Per cent	Amount	Per cent
<b>All crops, including hay and forage.....</b>	12,937,981	-----	7,463,080	-5,474,952	-42	-----	-----	-----	-----
<b>All crops, excluding hay and forage.....</b>	10,631,956	10,241,624	6,252,419	-4,379,537	-41	-390,332	-4	3,989,205	39
<b>Cereals.....</b>	6,921,227	6,009,672	3,804,372	-3,116,856	-45	-911,556	-13	2,205,300	37
Corn harvested for grain.....	3,507,797	2,727,303	1,868,569	-1,639,228	-47	-780,494	-22	858,733	31
Wheat.....	2,074,079	1,757,011	1,037,627	-1,036,452	-50	-317,068	-15	719,384	41
Oats threshed for grain.....	855,255	1,057,417	610,498	-244,758	-29	+202,161	+24	446,919	42
Barley.....	100,427	209,222	122,082	-38,346	-24	+48,795	+30	87,140	42
Rye.....	116,538	85,379	57,886	-58,652	-50	-31,159	-27	27,493	32
Buckwheat.....	19,715	18,648	12,852	-6,863	-35	-1,067	-5	5,797	31
Sorghums harvested for grain.....	90,221	73,468	52,321	-37,900	-42	-16,753	-19	21,147	29
Rice (rough).....	97,194	81,224	42,537	-54,658	-56	-15,970	-16	38,687	48
Peanuts.....	62,752	61,492	35,308	-27,444	-44	-1,259	-2	26,185	43
Flaxseed.....	29,361	124,650	66,135	+36,774	+125	+95,289	+325	58,515	47
Hay and forage, excluding corn cut for forage.....	2,306,026	-----	1,210,611	-1,095,415	-48	-----	-----	-----	-----
Sugar beets grown for sugar.....	66,052	77,027	55,754	-10,298	-16	+10,975	+17	21,272	28
<b>Miscellaneous crops.....</b>	3,215,420	3,608,144	2,057,971	-1,157,449	-36	+392,723	+12	1,550,172	48
Potatoes (Irish or white).....	639,441	776,023	223,925	-415,515	-65	+136,583	+21	552,098	71
Sweet potatoes and yams.....	124,844	59,861	53,812	-71,033	-57	-64,983	-52	6,049	10
Tobacco.....	443,705	357,812	211,733	-231,972	-52	-85,893	-19	146,080	41
Cotton.....	2,007,430	2,414,447	1,568,501	-438,929	-22	+407,017	+20	845,946	35
Apples.....	241,574	270,596	174,821	-66,753	-28	+29,022	+12	95,775	35
Peaches.....	95,570	90,044	58,058	-37,512	-39	-5,526	-6	31,985	36

<sup>1</sup> Value of crops with production reported in 1924, exclusive of sugar cane

<sup>2</sup> A minus sign (-) denotes decrease and a plus sign (+) an increase.

<sup>3</sup> Change in value as actually reported, due to change in production and to lower prices

<sup>4</sup> Increase or decrease in value on basis of 1919 prices for both 1919 and 1924 crops The percentages in this section represent the net quantitative increase or decrease in production.

<sup>5</sup> Decrease of actual 1924 values over values computed for 1924 on basis of 1919 prices.

Source: Bureau of the Census, Department of Commerce.

**No. 644.—ACREAGE, PRODUCTION, AND VALUE OF ALL CROPS IN THE UNITED STATES: CENSUS STATISTICS, 1899 TO 1924**  
 NOTE.—Tons are of 2,000 pounds, bales of cotton, of 500 pounds For weights of the bushel for principal products, see Appendix, p. 850

Crop	Acreage (thousands)				Production in thousands of units indicated					Value in thousands of dollars			
	1899	1909	1919	1924	Unit	1899	1909	1919	1924	1909	1919	1924	1924 <sup>1</sup>
<b>All crops</b> .....	283, 149	311, 196	334, 549	338, 820						5, 231, 851	14, 755, 238	7, 472, 535	
<b>With acreage reports</b> .....										5, 018, 074	13, 638, 130	7, 239, 656	
<b>With no acreage reports</b> .....										213, 776	1, 117, 108	232, 879	
<b>Cereals</b> .....	184, 992	191, 896	219, 091	186, 338	Bushel	4, 436, 837	4, 512, 664	4, 661, 216	4, 244, 398	2, 665, 540	6, 941, 533	3, 804, 372	
Corn harvested for grain.....	94, 914	98, 383	87, 772	82, 329	do.	2, 006, 324	2, 552, 150	2, 435, 553	1, 823, 880	1, 438, 554	3, 307, 797	1, 868, 569	
Wheat.....	52, 589	44, 263	37, 099	30, 862	do.	698, 534	683, 379	945, 403	800, 877	697, 067	2, 074, 079	610, 438	
Oats threshed for grain.....	29, 540	36, 159	37, 991	37, 660	do.	943, 389	1, 007, 143	1, 065, 183	1, 304, 599	414, 697	855, 256	187, 627	
Barley.....	4, 470	7, 669	6, 473	6, 767	do.	119, 635	173, 344	122, 025	156, 139	92, 459	160, 427	122, 082	
Rye.....	2, 054	2, 196	7, 679	3, 744	do.	25, 569	24, 520	75, 992	55, 674	20, 422	116, 538	57, 886	
Buckwheat.....	807	878	743	717	do.	11, 284	14, 849	12, 690	12, 004	9, 331	19, 715	12, 852	
Kummers and spelt.....		574	167	( <sup>1</sup> )	do.		12, 703	2, 608	( <sup>1</sup> )	5, 584	3, 700	( <sup>1</sup> )	
Sorghums harvested for grain.....	267	1, 635	3, 619	3, 526	do.	5, 169	17, 697	72, 086	98, 700	10, 817	90, 221	52, 321	
Rice (rough).....	342	610	911	744	do.	9, 003	21, 839	35, 331	26, 526	16, 020	97, 194	42, 537	
Mixed crops.....			577	( <sup>1</sup> )	do.			14, 065	( <sup>1</sup> )		16, 605	( <sup>1</sup> )	
<b>Other grains and seeds with acreage reports</b> .....	4, 076	6, 157	4, 662	( <sup>1</sup> )		( <sup>1</sup> )	( <sup>1</sup> )		( <sup>1</sup> )	80, 969	184, 086	( <sup>1</sup> )	
Dry edible beans.....	454	803	1, 162	1, 637	Bushel	5, 064	11, 251	14, 079	( <sup>1</sup> )	21, 771	61, 795	( <sup>1</sup> )	
Soy beans.....	2	2	113	( <sup>1</sup> )	do.		17	1, 085	( <sup>1</sup> )	21	4, 450	( <sup>1</sup> )	
Other beans.....	26	13	2	1, 476	do.	143	163	50	( <sup>1</sup> )	220	128	( <sup>1</sup> )	
Dry peas.....	968	1, 305	866	( <sup>1</sup> )	do.	9, 440	7, 129	6, 743	( <sup>1</sup> )	10, 964	20, 791	( <sup>1</sup> )	
Peanuts.....	617	870	1, 125	1, 105	do.	11, 964	19, 416	27, 450	26, 899	18, 272	63, 752	35, 308	
Flaxseed.....	2, 111	2, 083	1, 261	3, 435	do.	40, 979	19, 513	6, 653	28, 249	28, 971	29, 361	66, 135	
Miscellaneous seeds.....		81	124	( <sup>1</sup> )	do.	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4, 781	4, 781	( <sup>1</sup> )	
<b>Seeds with no acreage reports</b> .....					Bushel	4, 885	6, 671	7, 852	( <sup>1</sup> )	16, 549	88, 354	( <sup>1</sup> )	
Hay and forage, including corn cut for forage.....	61, 601	72, 402	81, 618	78, 087	Ton	79, 252	97, 755	128, 549	( <sup>1</sup> )	826, 401	2, 316, 116	1, 210, 611	
Hay and forage, excluding corn cut for forage.....	68, 584	68, 227	72, 780	82, 314	do.	71, 113	87, 216	90, 356	88, 384	776, 068	1, 865, 149	1, 076, 254	
Hay alone.....					do.								
<b>Vegetables</b> <sup>2</sup> .....	5, 688	7, 073	6, 630	5, 012		( <sup>1</sup> )	( <sup>1</sup> )	290, 428	352, 462	416, 110	1, 802, 200	223, 925	
Potatoes (Irish or white).....	2, 939	3, 669	3, 252	2, 911	Bushel	273, 318	389, 195	58, 429	37, 444	105, 424	638, 441	53, 812	
Sweet potatoes and yams.....	537	641	803	467	do.	42, 517	59, 232	78, 092	( <sup>1</sup> )	35, 429	124, 844	( <sup>1</sup> )	
Other vegetables <sup>3</sup> .....	2, 162	2, 763	1, 475	1, 635	do.				( <sup>1</sup> )	216, 257	537, 915	( <sup>1</sup> )	
<b>Sugar crops</b> .....	790	1, 164	1, 491	( <sup>1</sup> )	Ton	6, 906	11, 519	11, 182	12, 104	69, 263	162, 439	( <sup>1</sup> )	
Sugar cane.....	387	477	473	326	do.	4, 202	6, 240	3, 515	1, 664	26, 416	56, 499	12, 9, 505	
Sorghum grown for syrup.....	293	326	482	184	do.	1, 910	1, 876	1, 044	( <sup>1</sup> )	7, 963	24, 603	( <sup>1</sup> )	
Sugar beets grown for sugar.....	110	360	636	743	do.	1, 793	3, 902	5, 993	6, 989	19, 685	66, 052	55, 754	
Maple sugar and syrup.....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	do.	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5, 178	12, 381	( <sup>1</sup> )	

Miscellaneous crops.									
Tobacco.....	1,101	33,730	35,977	( <sup>1</sup> )	Pound.....	898,113	1,065,765	1,371,504	949,015
Cotton, including cottonseed.....	24,275	82,044	83,740	39,204	Bale.....	9,585	10,649	11,376	104,303
Lint cotton.....	56	45	16	( <sup>2</sup> )	Ton.....	4,707	5,325	5,328	2,355,169
Cottonseed (estimated).....	52	20	22	( <sup>3</sup> )	Pound.....	90,947	78,960	113,031	2,007,430
Broom corn.....	179	326	338	( <sup>4</sup> )	do.....	40,210	40,719	19,761	347,739
Hops.....	56	45	16	( <sup>5</sup> )					7,945
Sundry minor crops.....	52	20	22	( <sup>6</sup> )					10,364
<b>Small fruits.....</b>									2,984
Strawberries.....	310	272	249	( <sup>7</sup> )	Quart.....	493,219	428,666	394,988	29,974
Raspberries.....	151	143	119	193	do.....	257,427	176,932	176,932	17,914
Blackberries and dewberries.....	61	49	54	( <sup>8</sup> )	do.....	76,628	60,918	61,336	36,004
Cherries.....	50	49	46	( <sup>9</sup> )	do.....	62,190	55,344	39,945	13,336
Currants.....	20	18	17	( <sup>10</sup> )	do.....	31,601	38,243	35,200	7,118
Other berries.....	13	8	7	( <sup>11</sup> )	do.....	18,593	10,449	7,615	3,910
<b>Orchard fruits.....</b>	14	5	5	( <sup>12</sup> )	do.....	16,780	5,910	3,904	1,790
Apples.....					Bushel.....	212,368	213,974	230,682	1,422
Peaches.....					do.....	175,398	145,412	185,561	472
Pears.....					do.....	15,433	35,470	50,686	140,867
Plums and prunes.....					do.....	8,841	14,204	47,755	83,231
Cherries.....					do.....	6,925	8,841	14,204	241,574
Apricots.....					do.....	8,784	15,480	19,084	95,570
All other.....					do.....	2,873	4,126	3,946	26,440
					do.....	2,642	4,150	6,130	40,984
					do.....	680	494	71	7,231
<b>Grapes.....</b>					Pound.....	1,300,984	2,265,065	2,516,840	12,223
<b>Subtropical fruits.....</b>									151
Oranges.....					Box.....	6,168	19,487	27,768	22,028
Lemons.....					do.....	877	2,770	6,585	95,586
Grapefruit (pomelos).....					do.....	31	1,189	3,656	114,868
Figs.....					Pound.....	12,965	35,060	26,877	83,399
All other.....									19,102
<b>Nuts.....</b>									2,061
Pecans.....					Pound.....	3,207	9,891	31,809	2,812
Walnuts (Persian or English).....					do.....	10,668	22,027	59,840	2,379
Almonds.....					do.....	7,143	6,794	15,853	4,448
Coconuts.....					Number.....	17	17	013	7,972
All other.....					Pound.....	19,011	23,617	17,916	2,297

<sup>1</sup> Value of crops with production reported in 1924

<sup>2</sup> Excluding 14,502.932 acres reported for corn cut for forage, which is practically all duplicated in the acreage shown for corn harvested as grain

<sup>3</sup> Includes 3,169,149 acres of oats unthreshed and 5,172,326 acres of corn hogged off, not reported separately prior to 1924, excludes a few crops for which acreage is not available

<sup>4</sup> Not available

<sup>5</sup> Excludes velvet beans, the acreage of which was largely duplicated in the acreage shown for "Hay and forage."

<sup>6</sup> Includes "velvet beans" only

<sup>7</sup> Included in the hay production is an undetermined tonnage of sorghum cut for hay, no corresponding value being shown in previous years.

<sup>8</sup> Includes the value of an undetermined tonnage of sorghum cut for hay, no corresponding value being shown in previous years.

<sup>9</sup> Including farm gardens in 1892 and 1909, in 1919 vegetables raised for sale only, and in 1924 only 7 vegetables, cabbages, cantaloupes, latatoes, sweet corn, tomatoes, and watermelons, grown for sale. The value of the farm gardens in 1919 (included in the total for crops with no acreage reports) was \$344,666.000.

<sup>10</sup> Figures for Louisiana only.

<sup>11</sup> See footnote 11.

Source: Bureau of the Census, Department of Commerce.

**No. 645.—PERCENTAGE OF IMPROVED LAND AND OF TOTAL CROP ACREAGE OCCUPIED BY EACH PRINCIPAL CROP OR CROP GROUP**

Crop	Per cent of improved land occupied			Per cent of all reported crop acreage			
	1899	1909	1919	1899	1909	1919	1924
All crops with acreage reports.....	68.3	65.0	69.3	100.0	100.0	100.0	100.0
All cereals.....	44.6	40.0	43.5	65.3	61.5	62.8	55.0
Corn.....	22.9	20.6	17.4	33.5	31.6	25.2	24.3
Wheat.....	12.7	9.3	14.5	18.6	14.2	21.0	15.0
Oats.....	7.1	7.3	7.6	10.4	11.3	10.9	11.1
All other.....	1.9	2.8	4.0	2.8	4.4	5.7	4.6
Beans, peas, peanuts, flaxseed and other seeds.....	9	1.1	.9	1.4	1.7	1.2	2.3
Hay and forage.....	14.9	15.1	16.2	21.8	23.3	23.4	26.3
Tobacco.....	3	.3	.4	4	.4	.5	.5
Cotton.....	5.9	6.7	6.7	8.6	10.3	9.7	11.6
Sugar crops.....	.2	.2	.3	.3	.4	.4	.4
Other minor crops.....	1	.1	.1	2	.1	.1	2.5
Vegetables <sup>1</sup> .....	1.4	1.5	1.1	2.0	2.3	1.6	1.5
Potatoes (Irish or white).....	.7	8	.6	1.0	1.2	.9	.9
Small fruits.....	1	1	(?)	.1	.1	1	.1

<sup>1</sup> Including potatoes<sup>2</sup> Less than one-tenth of 1 per cent.

Source: Bureau of the Census, Department of Commerce.

**No. 646.—TRUCK CROPS: COMMERCIAL ACREAGE AND PRODUCTION**

NOTE.—Only States with a crop of commercial importance are included. Weights of the units of measurement are as follows: Number of pounds to the crate—aspargus, 24; celery and cantaloupes, 60; cauliflower, 50; eggplant, 38; lettuce, approximately, 50. Number of pounds to the bushel—carrots, 50; onions, 57; cucumbers, 48; peppers, 22. Tons are of 2,000 pounds.

Crop	1923	1924	1925	1926	1927	1928 (prel.)	1928, two leading States
Acreage							
Asparagus.....	42,050	50,560	65,530	84,980	90,500	94,930	Calif., N. J.
Beans, snap.....	61,280	84,600	104,550	98,120	111,090	135,060	Fla., N. J.
Cabbage.....	104,880	119,120	119,970	129,330	143,790	136,850	N. Y., Tex.
Cantaloupes.....	84,160	95,250	93,260	101,690	105,780	100,400	Calif., Colo.
Carrots.....	9,770	11,480	15,760	19,000	26,300	23,980	La., Tex.
Cauliflower.....	11,580	13,000	15,180	22,520	17,750	20,650	Calif., N. Y.
Celery.....	20,660	22,550	22,910	21,830	24,550	26,400	Do
Corn, sweet.....	252,590	302,790	393,910	317,310	215,430	289,180	Ill., Iowa
Cucumbers.....	91,960	121,760	142,190	111,810	93,500	109,840	Mich., Wis.
Eggplant.....	2,470	2,690	3,490	3,210	2,990	3,890	Calif., La.
Lettuce.....	57,990	68,680	86,020	105,860	121,880	126,780	Calif., Colo.
Onions.....	61,940	65,090	65,280	74,200	76,640	77,480	Tex., Ind.
Peas, green.....	207,210	254,270	260,310	261,840	221,000	267,610	Wis., N. Y.
Peppers.....	8,030	11,160	13,700	15,330	14,600	18,510	N. C., Fla.
Potatoes, early Irish.....	281,740	338,250	302,780	323,800	348,230	400,720	Var., N. C.
Spinach.....	30,550	34,390	44,510	51,580	55,210	63,270	Tex., Calif.
Strawberries.....	148,360	176,470	145,060	152,480	188,970	203,680	La., Mo.
Tomatoes.....	379,280	441,790	483,750	372,430	397,430	400,780	Fla., Calif.
Watermelons.....	157,350	184,830	173,710	199,060	182,510	210,450	Ga., Tex.
Production							
Asparagus.....1,000 crates.....	5,854	5,500	6,301	7,813	7,877	9,235	Calif.
Beans, snap.....1,000 tons.....	100	111	150	117	127	147	N. J., Fla.
Cabbage.....do.....	806	1,068	947	1,036	1,203	977	N. Y., Wis.
Cantaloupes.....1,000 crates.....	11,745	13,834	14,553	14,393	15,014	15,521	Calif., Colo.
Carrots.....1,000 bushels.....	3,184	4,084	4,800	5,523	7,763	6,702	La., N. Y.
Cauliflower.....1,000 crates.....	3,322	2,741	3,403	5,538	4,096	4,987	Calif., N. Y.
Celery.....do.....	5,684	6,509	6,702	5,767	7,585	7,173	Do
Corn, sweet.....1,000 tons.....	603	528	1,014	816	899	586	Iowa, Ill.
Cucumbers.....1,000 bushels.....	7,671	7,549	12,699	9,224	8,256	8,428	Fla., Mich.
Eggplant.....1,000 crates.....	850	705	904	791	782	896	Fla., N. J.
Lettuce.....do.....	11,672	13,221	16,076	17,150	19,383	18,589	Calif., Ariz.
Onions.....1,000 bushels.....	17,306	19,190	19,662	21,119	23,595	19,025	Tex., N. Y.
Peas, green.....1,000 tons.....	181	274	242	261	239	277	Wis., N. Y.
Peppers.....1,000 bushels.....	2,953	3,674	3,455	3,890	3,502	4,418	N. J., Fla.
Potatoes, early Irish.....do.....	26,245	44,103	30,890	36,624	44,825	55,368	Va., N. J.
Spinach.....1,000 tons.....	96	108	107	124	141	138	Calif., Tex.
Strawberries.....1,000 quarts.....	256,409	318,121	228,577	277,940	319,519	325,045	Md., La.
Tomatoes.....1,000 tons.....	1,609	1,687	2,322	1,376	1,641	1,402	Calif., N. J.
Watermelons.....thousands.....	42,734	57,086	56,498	69,698	57,682	61,773	Ga., Fla.

Source: Bureau of Agricultural Economics, Department of Agriculture.

## No. 647.—ESTIMATED VALUE OF 22 CROPS AND OF ALL CROPS: BY STATES

NOTE.—The following tabulation gives the estimated total value of 22 crops—corn, wheat, oats, barley, rye, buckwheat, flaxseed, rice, potatoes, sweet potatoes, all hay, tobacco, lint cotton, beans, broomcorn, grain sorghums, hops, oranges, cloverseed, peanuts, cranberries, and apples, in 1924 to 1928, and the calculated value of all crops in 1924 to 1928, based upon ratio of the 22 crops to all crops in the census year 1919. The slight differences in the total value of crops in the United States between Table 597 and this table are due to different methods of estimating. In this table, where each State is shown separately, a more detailed method is used than is practicable in Table 597.

[Values in millions and tenths of millions of dollars]

State	Value 22 crops					Hypothetical value all crops				
	1924	1925	1926	1927	1928	1924	1925	1926	1927	1928
United States.....	8,478.3	7,967.3	7,042.1	7,676.1	7,602.6	10,043.4	9,531.5	8,438.5	9,168.5	9,093.2
Maine.....	45.4	94.1	74.6	58.1	39.2	49.4	102.2	81.1	63.1	42.6
New Hampshire.....	14.3	17.0	15.4	14.7	12.6	18.0	21.5	19.5	18.6	16.0
Vermont.....	33.8	32.5	32.4	28.2	27.0	43.9	42.2	42.1	36.6	35.1
Massachusetts.....	29.9	33.3	30.8	30.2	29.4	43.9	48.9	45.3	44.4	43.3
Rhode Island.....	2.7	3.1	3.2	2.6	2.6	3.9	4.6	4.6	3.8	3.7
Connecticut.....	31.3	29.6	30.2	29.5	29.2	38.6	36.6	37.3	36.5	36.1
New York.....	228.6	253.9	219.4	199.6	177.7	296.8	329.8	284.9	259.3	230.8
New Jersey.....	36.1	42.1	37.2	35.0	29.4	51.5	60.1	53.1	50.0	42.0
Pennsylvania.....	232.7	257.9	223.9	214.5	189.0	270.5	299.8	260.3	249.5	219.8
Ohio.....	273.9	271.0	261.6	232.9	230.1	314.8	311.5	300.7	267.7	264.5
Indiana.....	240.7	224.3	202.5	192.2	202.8	267.5	249.2	225.0	213.5	225.4
Illinois.....	510.6	426.8	360.0	356.5	432.5	555.0	463.9	391.4	387.5	470.1
Michigan.....	210.5	221.1	206.0	185.8	194.6	256.7	269.6	251.2	226.5	237.3
Wisconsin.....	236.1	272.9	244.0	247.1	240.9	291.5	336.9	301.2	305.1	297.5
Minnesota.....	373.6	331.1	290.1	287.8	290.4	419.8	372.1	326.0	323.3	326.3
Iowa.....	490.7	444.2	405.7	448.0	501.7	533.4	482.9	441.0	486.9	546.3
Missouri.....	293.9	278.6	246.0	238.3	249.1	330.3	313.0	276.4	267.7	279.9
North Dakota.....	329.6	259.1	176.9	256.6	223.5	358.2	281.6	192.3	278.9	242.9
South Dakota.....	228.4	174.2	113.2	225.3	156.9	245.6	187.3	121.8	242.3	168.7
Nebraska.....	349.3	300.7	241.7	359.9	315.4	367.7	316.5	254.4	378.8	332.0
Kansas.....	415.1	285.2	303.4	328.3	371.3	456.2	313.4	333.4	360.8	408.0
Delaware.....	11.8	12.6	10.5	11.7	11.6	16.4	17.5	14.5	16.2	16.2
Maryland.....	56.3	60.1	55.8	57.5	49.8	70.3	75.1	69.8	71.8	62.3
Virginia.....	151.6	140.1	143.6	154.0	145.6	178.3	164.8	169.0	181.1	171.3
West Virginia.....	54.5	61.4	60.0	57.1	56.5	67.3	75.7	74.0	70.5	69.8
North Carolina.....	278.3	294.9	278.8	299.9	264.6	319.9	339.0	320.5	344.7	304.1
South Carolina.....	143.2	135.9	115.1	136.9	117.7	174.7	165.8	140.3	166.9	143.6
Georgia.....	206.1	185.6	169.4	208.3	185.7	257.6	232.0	211.8	260.3	232.2
Florida.....	37.9	52.2	53.2	58.1	55.3	61.1	84.2	85.8	93.8	89.2
Kentucky.....	195.3	175.3	154.9	153.5	169.2	219.5	197.0	174.1	172.5	190.1
Tennessee.....	182.7	162.0	149.9	154.1	165.7	220.0	195.2	180.6	185.7	199.7
Alabama.....	182.2	188.5	140.3	182.6	159.6	224.9	232.7	173.3	225.5	197.1
Mississippi.....	178.2	244.3	156.2	189.2	176.9	214.7	294.3	188.2	227.9	213.1
Arkansas.....	195.8	191.5	154.5	163.6	168.9	235.9	230.7	186.2	197.1	203.5
Louisiana.....	104.5	141.0	96.3	106.5	114.7	147.2	198.6	135.6	150.0	161.6
Oklahoma.....	351.8	251.2	263.8	243.8	263.9	404.4	288.8	303.2	280.2	303.4
Texas.....	751.8	494.4	516.8	612.2	649.8	905.8	595.6	626.5	737.5	782.9
Montana.....	117.4	101.4	96.9	137.1	117.5	136.5	117.9	112.7	159.4	136.7
Idaho.....	73.0	103.7	82.6	95.3	84.7	83.0	117.8	93.9	108.3	96.2
Wyoming.....	23.7	27.6	26.6	27.7	28.5	26.9	31.4	30.3	31.4	32.4
Colorado.....	92.1	112.0	82.7	87.7	86.4	121.2	147.4	108.8	115.4	113.6
New Mexico.....	30.8	22.0	26.8	22.7	26.2	40.0	28.6	34.8	29.5	34.0
Arizona.....	28.1	27.6	22.3	28.1	34.2	33.5	32.8	26.5	33.4	40.7
Utah.....	22.3	33.0	25.8	26.0	29.6	31.8	47.2	36.9	37.2	42.2
Nevada.....	8.0	10.2	8.7	7.8	10.1	8.3	10.6	9.0	8.1	10.6
Washington.....	107.1	147.6	120.9	144.5	121.7	130.6	180.0	147.4	176.2	148.4
Oregon.....	59.4	76.8	67.0	80.3	77.1	79.2	102.4	89.4	107.1	102.8
California.....	227.4	261.6	244.3	259.1	285.2	421.0	484.5	452.4	479.8	528.2

Source Bureau of Agricultural Economics, Department of Agriculture.

# No. 648.—COTTON AND COTTONSEED: AREA, PRODUCTION, AND FARM VALUE, BY STATES

NOTE.—Figures for cotton production exclude linters. Blank spaces indicate data not available. Tons are of 2,000 pounds

## ALABAMA

Yearly average or year	Cotton					Cottonseed			Total value
	Acres	Bales (500 pounds gross)	Farm value, Dec. 1	Yield per acre	Farm price per pound, Dec. 1	Quantity	Value	Farm price per ton (annual average)	
	<i>Thousands</i>	<i>Thousands</i>	<i>1,000 dollars</i>	<i>Pounds</i>	<i>Cents</i>	<i>1,000 short tons</i>	<i>1,000 dollars</i>	<i>Dollars</i>	<i>1,000 dollars</i>
1909-1913.....	3,708	1,354	81,844	174	12.4	601	13,870	23 73	95,714
1914-1918.....	3,024	925	69,585	142	18 5	411	16,824	49 34	86,409
1919-1923.....	2,747	673	82,466	122	24 5	299	12,851	42 98	95,317
1924-1928.....	3,882	1,228	106,836	174	17 4	545	17,128	31 43	123,964
1923.....	3,079	587	93,289	91	31 8	260	11,963	46 07	105,252
1924.....	3,055	986	111,762	154	22 7	1 438	15,825	36.13	127,587
1925.....	3,504	1,357	128,210	185	18 9	602	19,077	31 69	147,287
1926.....	3,651	1,498	80,143	196	10 7	665	12,635	22 62	92,778
1927.....	3,166	1,192	113,145	180	19 0	529	19,409	36 69	132,554
1928 (preliminary)....	3,534	1,109	100,919	150	18.2	492	18,696	*38.00	119,615

## ARIZONA

1919-1923.....	131	67	11,408	256	34 1	30	---	---	---
1924-1928.....	170	118	12,844	332	21 8	52	1,436	27.62	14,280
1923.....	127	78	13,178	292	34 0	34	---	39 79	---
1924.....	180	108	14,204	285	26 4	48	1,543	32 15	15,747
1925.....	162	119	12,748	350	21 5	53	1,465	27.64	14,213
1926.....	167	128	8,113	349	13 3	54	972	19 15	9,085
1927.....	139	92	11,648	315	25 6	41	1,220	29 76	12,868
1928 (preliminary)....	200	149	17,508	357	23 5	66	1,980	*30 00	19,488

## ARKANSAS

1909-1913.....	2,262	868	52,361	183	12 2	386	8,206	21 69	60,567
1914-1918.....	2,596	985	93,307	183	18 8	438	20,408	46 29	113,715
1919-1923.....	2,782	906	105,035	163	23 2	402	14,813	36 85	119,848
1924-1928.....	3,470	1,299	110,608	179	17 0	576	16,626	28.86	127,234
1923.....	3,026	628	99,161	98	31 9	1 276	12,230	44 50	111,391
1924.....	3,094	1,098	124,743	169	22.8	1 486	16,626	34 21	141,369
1925.....	3,738	1,605	128,770	205	16 1	1 711	17,796	25 03	146,566
1926.....	3,790	1,548	85,140	195	11 0	687	12,022	19 73	97,162
1927.....	3,048	1,000	101,000	157	20 2	444	15,913	35 84	116,913
1928 (preliminary)....	3,681	1,246	113,386	162	18.2	554	20,775	*37.50	134,161

## CALIFORNIA (includes Lower California prior to 1924)

1910-1913.....	10	12	691	419	11 6	---	---	---	---
1914-1918.....	89	49	5,181	358	19 2	28	1,525	---	---
1919-1923.....	207	49	7,722	118	31 5	22	---	---	---
1924-1928.....	161	119	11,638	353	19 6	53	1,565	29.53	13,203
1923.....	233	54	8,700	285	32 0	24	708	29 50	9,408
1924.....	130	78	9,299	284	24 0	35	1,139	32 54	10,438
1925.....	169	122	13,397	340	22 0	54	1,827	33.84	15,224
1926.....	162	131	9,170	387	14 0	58	1,160	23.20	10,330
1927.....	128	91	9,555	340	21 0	40	1,304	32 60	10,859
1928 (preliminary)....	218	172	16,770	378	19 5	76	2,364	*31 50	19,164

## FLORIDA

1909-1913.....	243	62	5,107	123	17.0	34	734	22.09	5,841
1914-1918.....	191	48	6,161	117	30.3	28	1,112	45 39	7,273
1919-1923.....	107	16	2,104	75	26 3	8	316	39 50	2,420
1924-1928.....	89	25	2,198	134	17.6	12	351	29.25	2,549
1923.....	147	12	1,778	40	28.8	6	250	41 05	2,028
1924.....	80	19	2,443	130	22 5	1 10	357	35 67	2,800
1925.....	101	38	3,539	180	18 8	17	537	31 60	4,126
1926.....	105	32	1,632	145	10 2	14	266	24 12	1,898
1927.....	64	16	1,624	126	19 1	8	269	33 65	1,893
1928 (preliminary)....	95	19	1,700	97	17 9	9	324	*36 00	2,024

<sup>1</sup> Slight difference from census figures on ginnings due to ginnings in one State of cotton grown in another.

<sup>2</sup> As of Dec. 1.

## COTTON CROP

675

No. 648.—COTTON AND COTTONSEED: AREA, PRODUCTION, AND FARM VALUE,  
BY STATES—Continued

## GEORGIA

Yearly average or year	Cotton					Cottonseed			Total value
	Acres	Bales (500 pounds gross)	Farm value, Dec 1	Yield per acre	Farm price per pound, Dec. 1	Quantity	Value	Farm price per ton (annual average)	
	Thousands	Thousands	1,000 dollars	Pounds	Cents	1,000 short tons	1,000 dollars	Dollars	1,000 dollars
1909-1913.....	5,141	2,087	127,034	193	12 5	938	21,478	23 48	148,512
1914-1918.....	5,214	2,091	189,373	191	18 9	939	45,024	49 96	234,397
1919-1923.....	4,226	1,033	130,040	122	25 2	458	21,590	47 14	151,630
1924-1928.....	3,548	1,159	101,249	166	17 5	514	16,693	32 48	117,942
1923.....	3,421	588	94,118	82	32 0	261	12,327	47 27	106,445
1924.....	3,046	1,004	112,217	157	22 4	445	16,513	37 12	128,735
1925.....	3,589	1,164	110,569	155	19 0	516	17,590	34 09	128,159
1926.....	3,965	1,496	83,028	180	11 1	664	13,944	24 37	96,972
1927.....	3,413	1,100	106,700	154	19 4	488	18,505	37 92	125,205
1928 (preliminary)....	3,728	1,029	93,730	132	18 2	457	16,909	* 37 00	110,639

## LOUISIANA

1909-1913.....	1,031	341	19,950	157	12 0	151	3,210	22 16	23,160
1914-1918.....	1,335	246	48,602	175	18 3	219	10,604	45 50	59,206
1919-1923.....	1,342	335	39,492	125	23 6	149	5,588	37 50	45,079
1924-1928.....	1,800	694	59,524	184	17 2	308	8,701	28 25	68,225
1923.....	1,405	368	55,734	125	30 3	163	6,621	40 83	62,355
1924.....	1,616	493	55,177	145	22 4	219	6,844	31 25	62,021
1925.....	1,874	910	82,397	232	18 1	404	11,874	29 39	94,271
1926.....	1,979	829	45,595	200	11 0	368	6,624	20 22	52,219
1927.....	1,542	548	52,608	170	19 2	243	8,187	33 69	60,795
1928 (preliminary)....	1,990	691	61,844	166	17 9	307	9,978	* 32 50	71,822

## MISSISSIPPI

1909-1913.....	3,181	1,181	74,131	178	12 5	525	12,290	23 45	86,421
1914-1918.....	2,965	1,029	95,974	166	19 0	457	21,192	47 39	117,166
1919-1923.....	2,922	852	106,693	146	25 0	378	15,118	39 99	121,811
1924-1928.....	3,514	1,562	141,819	212	18 2	693	22,006	31 75	163,825
1923.....	3,170	604	98,119	91	32 5	268	12,537	46 78	110,656
1924.....	2,981	1,099	130,188	176	23 7	487	17,688	36 32	147,876
1925.....	3,466	1,991	194,077	275	19 5	884	26,821	30 34	220,898
1926.....	3,752	1,888	109,504	241	11 6	838	17,598	24 56	127,102
1927.....	3,340	1,355	138,888	194	20 5	602	22,376	37 17	161,264
1928 (preliminary)....	4,029	1,475	136,438	175	18 5	655	25,545	* 39 00	161,983

## MISSOURI

1909-1913.....	105	65	3,638	292	11 6	29	678	23 88	3,977
1914-1918.....	135	63	5,602	225	18 2	28	1,280	46 46	6,882
1919-1923.....	183	98	11,613	268	23 7	43	1,845	42 91	13,458
1924-1928.....	414	193	15,211	223	15 8	86	2,647	30 78	17,858
1923.....	355	121	20,594	171	32 5	157	3,007	50 24	23,601
1924.....	493	189	22,179	185	23 0	186	3,440	40 00	25,619
1925.....	520	294	17,956	275	12 0	133	4,043	30 40	21,999
1926.....	434	218	10,900	240	10 0	97	1,630	19 78	12,530
1927.....	291	115	11,788	188	20 5	51	1,846	36 20	13,634
1928 (preliminary)....	334	147	13,230	210	18 0	65	2,275	* 35 00	15,505

## NEW MEXICO

1924-1928.....	108	68	6,781	301	19 9	32	898	28 06	7,679
1923.....	60	28	4,584	230	31 0	14	798	23 21	7,985
1924.....	101	55	7,137	266	25 0	25	916	30 52	7,560
1925.....	107	64	6,644	298	12 3	30	594	20 50	5,206
1926.....	120	71	4,612	299	10 8	31	936	30 15	7,566
1927.....	95	65	6,930	352	19 5	39	1,248	* 32 00	9,823
1928 (preliminary)....	117	84	8,580	360					

\* Slight differences from census figures on ginnings due to ginnings in one State of cotton grown in another.

\* As of Dec 1.

## COTTON CROP

No. 648.—COTTON AND COTTONSEED: AREA, PRODUCTION, AND FARM VALUE,  
BY STATES—Continued

## NORTH CAROLINA

Yearly average or year	Cotton					Cottonseed			Total value
	Acres	Bales (500 pounds gross)	Farm value, Dec 1	Yield per acre	Farm price per pound, Dec 1	Quan- tity	Value	Farm price per ton (annual average)	
	<i>Thou- sands</i>	<i>Thou- sands</i>	<i>1,000 dollars</i>	<i>Pounds</i>	<i>Cents</i>	<i>1,000 short tons</i>	<i>1,000 dollars</i>	<i>Dollars</i>	<i>1,000 dollars</i>
1909-1913.....	1,516	308	45,819	252	12 3	358	8,850	25 57	57,189
1914-1918.....	1,475	760	67,774	245	18 3	337	16,278	49 59	84,052
1919-1923.....	1,557	881	107,678	283	24 4	390	17,060	43 74	124,738
1924-1928.....	1,919	967	85,792	241	17 7	429	14,364	33 48	100,156
1923.....	1,679	1,020	157,101	290	30 8	452	20,150	44 60	177,251
1924.....	2,005	825	93,262	196	22 6	366	13,670	37 35	106,932
1925.....	2,017	1,102	104,671	261	19 0	488	16,885	34 60	121,556
1926.....	1,985	1,213	69,748	292	11 5	539	11,858	24 56	81,606
1927.....	1,728	861	83,948	238	19 5	382	14,569	38 14	98,513
1928 (preliminary)....	1,860	836	77,350	215	18 5	371	14,840	* 40 00	92,170

## OKLAHOMA

1909-1913.....	2,539	870	48,658	164	11 4	387	7,560	20 23	56,218
1914-1918.....	2,617	852	71,205	157	17 8	379	15,622	44 19	86,827
1919-1923.....	2,698	823	91,046	153	22 1	366	12,667	34 61	103,713
1924-1928.....	4,319	1,443	120,738	160	16 7	641	18,020	28 11	138,758
1923.....	3,197	656	97,023	98	29 6	291	11,497	39 59	108,520
1924.....	3,861	1,511	167,673	187	22 2	671	21,499	32 04	189,172
1925.....	5,214	1,691	143,785	155	17 0	751	21,456	28 87	165,191
1926.....	4,676	1,773	85,990	131	9 7	787	12,120	16 63	98,110
1927.....	3,801	1,037	102,663	138	19 8	461	16,803	36 45	119,466
1928 (preliminary)....	4,243	1,205	103,630	136	17 2	536	18,224	* 34 00	121,854

## SOUTH CAROLINA

1909-1913.....	2,662	1,295	78,696	230	12 4	576	13,622	24 18	92,318
1914-1918.....	2,799	1,281	120,117	218	18 8	570	28,220	49 95	148,337
1919-1923.....	2,449	1,013	123,132	207	24 3	449	20,260	45 12	143,391
1924-1928.....	2,485	832	78,993	160	17 8	369	12,281	35 28	86,274
1923.....	1,965	770	123,226	187	32 0	341	15,485	45 31	138,711
1924.....	2,404	807	89,129	160	22 1	357	13,155	36 85	102,284
1925.....	2,654	889	83,535	160	18 8	394	13,384	33 97	96,919
1926.....	2,648	1,008	58,968	182	11 7	448	9,408	25 00	68,376
1927.....	2,356	730	71,540	148	19 6	324	12,898	39 81	84,438
1928 (preliminary)....	2,361	726	66,792	147	18 4	322	12,558	* 39 00	79,350

## TENNESSEE

1909-1913.....	797	337	20,241	200	12 3	150	3,480	23 71	23,721
1914-1918.....	872	328	28,710	180	18 2	146	6,632	47 07	35,342
1919-1923.....	878	311	36,255	177	23 3	138	5,694	41 26	41,949
1924-1928.....	1,077	423	35,603	188	16 8	187	5,809	31 06	41,412
1923.....	1,172	228	36,150	92	32 0	101	4,774	47 28	40,933
1924.....	996	356	41,103	170	23 2	157	5,831	37 14	46,934
1925.....	1,173	517	41,737	210	16 2	229	6,396	27 93	48,133
1926.....	1,143	452	22,550	188	10 0	200	3,800	20 76	26,350
1927.....	965	359	34,105	178	19 0	159	5,797	36 46	39,902
1928 (preliminary)....	1,107	429	38,520	185	18 0	190	7,220	* 38 00	45,740

## TEXAS

1909-1913.....	10,920	3,731	215,097	162	11 8	1,659	32,868	20 59	247,965
1914-1918.....	11,233	3,473	298,820	148	18 4	1,545	62,646	43 38	361,466
1919-1923.....	11,829	3,441	408,874	145	23 8	1,530	54,243	35 45	463,117
1924-1928.....	17,415	4,843	422,016	133	17 4	2,151	63,809	29 66	485,825
1923.....	14,150	4,342	659,738	147	30 4	1,927	75,326	39 15	735,064
1924.....	17,175	4,951	554,311	138	22 4	1,197	70,370	32 03	624,681
1925.....	17,608	4,165	385,112	113	18 5	1,849	59,113	31 97	444,225
1926.....	18,374	5,631	303,912	147	10 8	2,499	43,732	20 56	347,644
1927.....	16,176	4,356	419,968	129	19 3	1,938	66,241	34 18	486,209
1928 (preliminary)....	17,743	5,110	446,775	139	17 5	2,274	79,590	* 35 00	520,365

\* Slight differences from census figures on ginnings due to ginnings in one State of cotton grown in another.

\* As of Dec. 1.



**No. 648.—COTTON AND COTTONSEED: AREA, PRODUCTION, AND FARM VALUE,  
BY STATES—Continued**

**VIRGINIA**

Yearly average or year	Cotton					Cottonseed			Total value
	Acres	Bales (500 pounds gross)	Farm value, Dec. 1	Yield per acre	Farm price per pound, Dec. 1	Quan- tity	Value	Farm price per ton (annual average)	
	<i>Thou- sands</i>	<i>Thou- sands</i>	<i>1,000 dollars</i>	<i>Pounds</i>	<i>Cents</i>	<i>1,000 short tons</i>	<i>1,000 dollars</i>	<i>Dollars</i>	<i>1,000 dollars</i>
1909-1913.....	39	20	1,207	244	12 2	9	216	24 00	1,423
1914-1918.....	43	22	2,072	250	18 5	10	486	48 60	2,558
1919-1923.....	49	28	3,605	286	25 8	12	546	45 50	4,151
1924-1928.....	88	43	3,892	234	18 1	19	689	36 26	4,581
1923.....	74	51	8,093	325	32 0	22	982	44 64	9,075
1924.....	102	39	4,456	180	23 0	17	683	40 20	5,139
1925.....	100	53	4,991	250	19 0	23	831	36 14	5,822
1926.....	93	51	2,907	264	11 4	23	598	28 72	3,505
1927.....	64	30	3,100	230	20 0	14	553	39 50	3,653
1928 (preliminary).....	79	44	4,004	265	18 2	19	779	41 00	4,783

**OTHER STATES**

1924-1928.....	37	13	1,127	168	17.3	6	191	-----	1,318
1923.....	13	6	1,234	221	31 0	1 4	2,238	-----	3,472
1924.....	41	12	1,601	164	23 0	1 6	204	-----	1,805
1925.....	57	24	1,894	214	14.9	11	370	-----	2,264
1926.....	43	16	824	189	9 7	8	160	-----	984
1927.....	22	<sup>3</sup> 7	675	160	19 3	4	110	-----	785
1928 (preliminary).....	22	<sup>3</sup> 6	640	152	18 3	3	112	-----	752

<sup>1</sup> Slight differences from census figures on ginnings due to ginnings in 1 State of cotton grown in another

<sup>2</sup> As of Dec. 1.

<sup>3</sup> Includes Illinois, Kansas, and Kentucky, and the lint production of Florida, Missouri, New Mexico, and Virginia.

Source: Production of cotton, Bureau of the Census, Department of Commerce; other figures, Department of Agriculture

**No. 649.—FERTILIZER: AMOUNT SOLD IN 12 SOUTHERN STATES AS SHOWN  
BY TAG SALES**

[In tons of 2,000 pounds]

State	1922	1923	1924	1925	1926	1927	1928
<b>Total.....</b>	3,514,535	4,334,003	4,688,186	5,077,439	5,144,647	4,551,325	5,572,368
<i>Per cent increase over pre- ceding year.....</i>	<i>20 8</i>	<i>23 3</i>	<i>8 2</i>	<i>8 3</i>	<i>1 3</i>	<i>1 11 5</i>	<i>22 4</i>
Virginia <sup>2</sup> .....	449,942	422,350	441,895	451,656	435,223	408,008	437,709
North Carolina.....	951,174	1,066,553	1,183,053	1,217,822	1,218,176	1,171,499	1,349,360
South Carolina <sup>2</sup> .....	526,599	693,386	844,440	873,255	840,128	726,736	788,293
Georgia.....	521,547	675,867	678,959	778,808	780,302	713,047	883,274
Florida.....	353,769	398,564	365,317	258,463	398,480	417,438	468,907
Alabama.....	294,370	447,913	456,840	588,115	615,364	478,400	681,100
Mississippi.....	142,517	208,385	206,122	258,028	278,075	218,750	333,350
Tennessee.....	89,519	106,361	115,230	142,174	156,336	112,473	150,726
Missouri.....	50,021	51,597	47,121	63,939	56,891	56,100	64,922
Arkansas.....	36,115	79,616	96,750	124,387	126,175	75,487	126,391
Louisiana <sup>2</sup> .....	75,050	104,624	124,668	110,784	114,347	92,866	143,693
Texas <sup>2</sup> .....	33,912	78,787	127,791	101,008	125,150	80,521	144,643

<sup>1</sup> Decrease.

<sup>2</sup> Includes cottonseed meal used as fertilizer.

Source: The Fertilizer Review, National Fertilizer Association.

Division and State	Acres					Yield per acre				
	1909-1913, average	1925	1926	1927	1928 (preliminary)	1909-1913, average	1925	1926	1927	1928 (preliminary)
	Thousands 104, 229	Thousands 101, 302	Thousands 99, 615	Thousands 98, 393	Thousands 100, 761	Bushels 26 0	Bushels 28 8	Bushels 27 0	Bushels 28 1	Bushels 28 2
United States.....	104, 229	101, 302	99, 615	98, 393	100, 761	26 0	28 8	27 0	28 1	28 2
New England.....	198	217	220	224	217	42 5	43 7	42 4	39 1	42 4
Maine.....	16	12	13	14	13	41 2	45 0	35 0	37 0	40 0
New Hampshire.....	22	14	15	15	14	41 8	50 0	43 0	41 0	40 0
Vermont.....	45	85	84	84	80	39 6	48 0	43 0	39 0	44 0
Massachusetts.....	46	43	45	46	45	42 6	50 0	44 0	41 0	42 0
Rhode Island.....	11	9	9	10	10	39 8	45 0	41 0	38 0	39 0
Connecticut.....	58	54	54	55	55	46 2	50 0	42 0	38 0	42 0
Middle Atlantic.....	2, 223	2, 298	2, 252	2, 112	2, 114	38 6	46 6	39 6	37 8	37 4
New York.....	521	691	670	663	650	36 0	36 0	35 0	34 0	34 0
New Jersey.....	270	199	188	179	181	36 6	52 0	46 0	40 0	38 5
Pennsylvania.....	1, 432	1, 408	1, 394	1, 270	1, 283	39 8	51 0	41 0	39 5	39 0
South Atlantic.....	12, 385	11, 351	11, 041	11, 032	10, 721	19 7	17 6	20 5	21 0	17 8
Delaware.....	194	137	185	135	136	32 5	37 0	31 0	35 0	33 0
Maryland.....	663	594	554	515	530	34 2	45 0	39 8	44 0	36 5
Virginia.....	1, 952	1, 631	1, 694	1, 626	1, 642	24 5	22 0	27 5	29 5	27 5
West Virginia.....	708	520	485	441	459	29 6	36 5	33 0	33 5	36 0
North Carolina.....	2, 690	2, 400	2, 376	2, 352	2, 305	18 3	18 5	22 0	22 8	18 5
South Carolina.....	1, 791	1, 584	1, 426	1, 497	1, 422	18 2	12 3	15 5	17 0	12 0
Georgia.....	3, 727	3, 895	3, 817	3, 893	3, 620	14 7	10 7	14 5	14 0	10 5
Florida.....	640	580	551	573	607	18 6	15 0	14 0	13 0	13 0
East North Central.....	22, 363	21, 633	21, 180	19, 568	21, 331	36 4	43 7	36 6	30 8	37 8
Ohio.....	3, 950	3, 741	3, 591	3, 376	3, 646	39 0	48 0	41 0	32 5	37 5
Indiana.....	4, 880	4, 672	4, 672	4, 205	4, 533	38 3	43 5	38 0	31 5	35 2
Illinois.....	10, 311	9, 393	9, 205	8, 469	9, 570	35 0	42 0	35 0	30 0	38 4
Michigan.....	1, 650	1, 642	1, 593	1, 418	1, 461	33 7	40 0	34 0	27 5	35 0
Wisconsin.....	1, 572	2, 185	2, 119	2, 100	2, 121	35 6	46 5	34 5	32 5	43 0
West North Central.....	37, 485	43, 368	42, 180	41, 185	42, 560	26 3	29 7	25 2	31 8	30 8
Minnesota.....	2, 182	4, 136	4, 343	4, 172	4, 089	35 1	36 0	34 0	30 5	35 0
Iowa.....	9, 709	11, 234	11, 170	10, 901	11, 174	35 2	43 9	39 0	35 5	42 6
Missouri.....	7, 402	6, 741	6, 471	5, 796	6, 260	27 0	29 5	27 2	29 0	29 0
North Dakota.....	278	1, 056	1, 009	969	997	25 1	23 5	18 0	25 0	24 5
South Dakota.....	2, 317	4, 478	4, 630	4, 655	4, 460	27 0	17 5	18 0	29 0	21 0
Nebraska.....	7, 467	9, 100	8, 994	8, 805	8, 937	22 1	26 0	15 5	33 1	22 8
Kansas.....	8, 130	6, 623	5, 563	5, 897	6, 634	15 9	16 6	11 0	30 0	27 0
East South Central.....	12, 612	11, 187	10, 911	10, 547	10, 359	22 1	19 9	24 7	21 3	17 1
Kentucky.....	3, 557	3, 231	3, 069	2, 885	3, 029	27 0	26 5	33 0	26 0	22 0
Tennessee.....	3, 326	3, 162	3, 099	2, 944	2, 915	24 3	20 0	27 5	24 0	19 5
Alabama.....	2, 955	2, 797	2, 825	2, 800	2, 650	16 8	13 5	16 2	16 0	11 5
Mississippi.....	2, 774	1, 977	1, 918	1, 918	1, 765	18 5	18 0	19 2	17 8	13 0
West South Central.....	16, 347	8, 746	9, 350	11, 462	11, 016	17 3	10 8	24 5	22 7	20 3
Louisiana.....	1, 776	1, 225	1, 127	1, 161	1, 242	21 0	18 0	17 5	17 5	17 0
Texas.....	6, 666	2, 957	3, 844	5, 189	4, 722	13 0	8 5	27 8	23 0	21 0
Oklahoma.....	5, 604	2, 558	2, 353	3, 177	3, 050	13 8	7 5	26 0	26 5	23 0
Arkansas.....	2, 401	2, 006	2, 026	1, 925	2, 002	20 4	14 0	20 5	19 0	16 5
Mountain.....	535	2, 312	2, 280	2, 072	2, 190	20 8	17 3	11 4	18 4	15 7
Montana.....	20	309	359	305	274	28 3	16 5	11 0	23 5	19 0
Wyoming.....	13	191	176	176	167	21 0	23 0	20 0	20 0	18 0
Colorado.....	377	1, 410	1, 398	1, 284	1, 438	18 7	15 0	7 0	15 6	13 0
New Mexico.....	89	175	221	164	199	18 0	20 0	20 0	17 0	17 5
Arizona.....	16	39	40	44	39	31 7	26 0	28 0	32 0	26 0
Utah.....	8	18	19	19	18	32 1	24 0	24 0	27 0	29 0
Nevada.....	1	2	2	2	2	31 1	25 0	24 0	25 0	22 0
Idaho.....	11	78	66	76	53	31 5	41 0	41 0	41 0	46 0
Pacific.....	101	210	201	201	203	32 1	33 0	32 9	34 7	35 2
Washington.....	30	58	49	43	46	27 9	35 0	35 0	37 0	39 0
Oregon.....	19	71	75	81	82	28 9	29 0	33 0	36 0	36 0
California.....	52	81	77	77	75	35 7	35 1	31 5	32 0	32 0

Source. Bureau of Agricultural Economics, Department of Agriculture.

## AND FARM VALUE, BY STATES

Production					Farm value, Dec. 1					Division and State
1909-1913, average	1925	1926	1927	1928* (preliminary)	Amount			Per bushel, 1928	Per acre, 1928	
					1926	1927	1928 (preliminary)			
1,000 bushels	1,000 bushels	1,000 bushels	1,000 bushels	1,000 bushels	1,000 dollars	1,000 dollars	1,000 dollars	Cents	Dollars	U. S.
2,712,364	2,916,108	2,691,631	2,768,093	2,839,959	1,728,970	1,897,759	2,132,991	75	21 17	
8,423	10,875	9,329	8,765	9,190	9,840	9,883	11,128	121	51 28	New Eng.
678	540	455	518	520	455	570	598	116	48 00	Me
924	700	645	615	560	645	646	672	120	48 00	N. H.
1,767	4,080	3,612	3,276	3,520	3,431	3,440	3,872	110	48 40	Vt.
1,954	2,150	1,980	1,886	1,890	2,277	2,263	2,457	130	54 60	Mass.
417	405	369	380	390	424	456	526	135	52 60	R. I.
2,683	2,700	2,268	2,090	2,310	2,608	2,508	3,003	130	54 60	Conn.
85,700	107,032	89,252	79,667	79,105	71,665	73,378	75,172	95	35 58	Mid. Atlantic.
18,746	24,876	23,450	22,542	22,100	20,167	21,640	21,879	99	33 66	N. Y.
9,890	10,348	8,648	7,160	6,968	6,918	6,086	6,759	97	37 34	N. J.
57,064	71,808	57,154	50,165	50,037	44,580	45,650	46,534	93	36 27	Pa.
243,586	200,220	226,352	231,152	191,119	186,543	203,889	192,958	101	18 00	S. Atlantic.
6,292	5,069	4,273	4,725	4,488	2,738	3,780	3,949	88	29 04	Del.
22,689	24,930	22,049	22,660	19,345	14,111	18,128	17,024	88	32 12	Md.
47,930	36,982	46,585	47,967	45,155	39,597	44,130	45,155	100	27 50	Va.
20,959	18,980	16,005	14,774	16,524	15,045	14,774	17,020	103	37 08	W. Va.
49,334	44,400	52,272	53,626	42,642	45,999	48,800	43,921	103	19 05	N. C.
32,620	19,483	22,103	25,449	17,064	19,893	22,904	18,088	106	12 72	S. O.
55,012	41,676	55,946	54,502	38,010	42,063	44,147	39,910	105	11 02	Ga.
8,750	8,700	7,714	7,449	7,891	7,097	7,226	7,891	100	13 00	Fla.
813,703	944,588	774,210	603,493	807,873	451,893	445,421	568,556	73	27 43	E. N. Central.
154,084	179,568	147,231	109,720	136,725	88,339	84,484	103,911	76	23 50	Ohio.
187,009	203,232	177,536	132,458	161,322	88,768	90,071	111,312	69	24 29	Ind.
360,969	394,506	322,175	254,070	307,488	180,418	180,390	257,242	70	26 88	Ill.
55,505	65,680	54,162	38,995	51,135	39,538	38,146	42,953	84	29 40	Mich.
50,136	101,602	73,106	68,250	91,203	54,830	57,330	71,138	78	33 54	Wis.
984,468	1,290,127	1,061,405	1,309,642	1,310,781	644,650	854,943	880,714	67	20 69	W. N. Central.
76,953	148,896	147,662	127,246	143,115	82,691	81,437	88,731	62	21 70	Minn.
342,030	492,648	435,630	386,936	476,012	243,953	267,020	318,928	67	28 54	Iowa
200,135	198,860	176,011	168,084	181,640	119,687	128,063	132,524	73	21 17	Mo.
7,097	24,816	18,162	23,975	24,426	12,350	14,864	14,900	61	14 94	N. Dak.
62,318	78,365	83,340	134,995	93,849	48,337	76,947	58,186	62	13 02	S. Dak.
164,891	236,600	180,407	201,446	212,701	94,797	180,697	151,013	71	16 90	Nebr.
131,044	109,942	61,193	176,910	179,118	42,835	107,915	116,427	65	17 55	Kans.
278,509	222,208	269,090	224,606	178,900	187,055	197,619	177,740	101	17 16	E. S. Central.
95,802	85,622	101,277	75,010	66,638	65,830	66,009	63,972	96	21 12	Ky.
81,073	62,240	85,222	70,656	56,842	56,247	58,644	56,842	100	19 50	Tenn.
49,915	37,760	45,755	44,800	30,475	34,781	41,216	38,522	110	12 65	Ala.
51,719	35,586	36,826	34,140	22,945	30,197	31,750	29,404	102	13 26	Miss.
283,602	94,453	229,396	280,480	223,459	149,354	177,354	174,955	78	15 88	W. S. Central.
37,248	22,050	19,722	20,318	21,114	17,750	18,286	19,847	94	15 98	La.
120,576	25,134	106,863	119,347	99,162	64,118	77,576	77,346	78	16 38	Tex.
76,663	19,185	61,178	84,190	70,150	34,260	49,672	47,702	68	15 64	Okla.
49,115	28,084	41,533	36,575	33,033	33,226	31,820	30,060	91	15 01	Ark.
11,133	39,971	25,981	38,187	34,406	21,294	28,411	28,520	77	12 11	Mountain.
548	6,584	3,949	7,168	5,206	3,633	5,161	4,269	82	15 58	Mont.
284	4,393	3,520	3,520	3,006	2,534	2,605	2,254	75	13 50	Wyo.
7,011	21,150	9,786	19,902	18,694	6,948	13,533	12,712	68	8 84	Colo.
2,143	3,150	4,420	2,490	3,482	3,845	2,816	3,099	89	15 57	N. Mex.
500	1,014	1,120	1,408	1,014	1,944	1,619	1,268	125	32 51	Ariz.
264	432	432	513	522	497	564	626	120	34 78	Utah.
30	50	48	50	44	53	58	49	112	24 50	Nev.
353	3,198	2,706	3,116	2,438	2,435	2,555	2,243	92	42 32	Idaho.
3,240	6,932	6,616	6,971	7,146	6,676	6,663	7,248	101	35 70	Pacific.
832	2,030	1,715	1,591	1,794	1,629	1,432	1,776	99	38 61	Wash.
556	2,059	2,475	2,916	2,952	2,475	2,770	2,952	100	36 00	Oreg.
1,852	2,843	2,426	2,464	2,400	2,572	2,661	2,520	105	33 60	Calif.

## No. 651.—WHEAT: AREA, PRODUCTION,

Division and State	Acres					Yield per acre				
	1909-1913, average	1925	1926	1927	1928 (preliminary)	1909-1913, average	1925	1926	1927	1928 (preliminary)
United States.	Thousands 47,097	Thousands 52,367	Thousands 56,359	Thousands 58,784	Thousands 57,724	Bushels 14.7	Bushels 12.9	Bushels 14.3	Bushels 14.9	Bushels 15.6
New England.....	4	9	8	5	5	25.3	26.4	20.0	18.4	19.2
Maine.....	3	7	6	4	4	25.0	28.0	20.0	18.0	20.0
Vermont.....	1	2	2	1	1	26.3	21.0	20.0	20.0	16.0
Middle Atlantic.....	1,685	1,489	1,518	1,459	1,484	17.4	19.9	19.6	19.2	15.5
Delaware.....	333	308	279	301	316	20.0	19.5	17.5	20.9	14.9
New Jersey.....	82	56	60	60	60	18.0	21.0	22.0	23.0	20.0
Pennsylvania.....	1,270	1,125	1,177	1,098	1,108	16.7	20.0	20.0	18.5	15.5
South Atlantic.....	2,476	1,912	2,058	2,133	2,029	12.6	15.2	17.7	13.3	14.2
Delaware.....	113	102	103	98	102	15.9	18.5	20.0	19.0	18.0
Maryland.....	602	495	520	525	530	15.1	21.0	23.0	17.5	16.5
Virginia.....	742	630	687	687	673	12.2	14.2	16.5	12.2	14.5
West Virginia.....	231	134	147	135	122	12.9	13.5	16.0	13.3	13.0
North Carolina.....	586	406	447	483	444	10.4	11.0	14.1	10.7	11.6
South Carolina.....	72	46	50	80	64	10.8	11.0	16.0	11.0	12.5
Georgia.....	130	99	104	125	94	10.8	10.5	15.0	9.2	11.0
East North Central.....	7,070	6,647	6,893	6,956	4,336	15.6	15.6	19.7	16.4	13.7
Ohio.....	1,878	1,616	1,795	1,615	872	14.8	15.0	22.5	18.0	10.9
Indiana.....	2,017	1,772	1,703	1,790	910	14.4	14.5	20.0	15.5	10.5
Illinois.....	2,135	2,290	2,283	2,509	1,563	15.1	16.1	18.0	13.9	15.5
Michigan.....	860	856	984	897	887	16.0	17.0	18.3	21.5	16.0
Wisconsin.....	180	113	128	145	104	18.6	20.1	20.3	21.7	20.6
West North Central.....	26,993	27,938	28,504	30,631	31,312	13.2	11.3	11.7	13.2	15.2
Minnesota.....	4,030	2,263	1,929	1,763	1,599	14.9	13.4	12.9	11.9	15.0
Iowa.....	630	388	378	441	428	19.0	16.2	21.4	18.7	19.3
Missouri.....	2,083	1,704	1,403	1,568	1,511	14.8	13.2	15.3	10.0	12.7
North Dakota.....	8,108	9,605	9,653	10,246	10,367	11.0	11.7	8.0	12.7	13.8
South Dakota.....	3,603	2,701	1,917	3,037	3,262	10.8	11.8	6.1	14.9	10.6
Nebraska.....	2,951	2,676	3,077	3,630	3,672	16.8	12.8	13.0	20.3	19.0
Kansas.....	5,588	8,601	10,147	9,946	10,473	13.5	9.0	14.8	11.2	17.0
East South Central.....	1,445	609	709	837	544	11.7	13.1	18.1	8.0	8.7
Kentucky.....	728	230	258	296	115	12.2	14.0	18.5	9.5	8.0
Tennessee.....	685	367	440	528	422	11.2	12.5	18.0	7.0	8.8
Alabama.....	27	7	7	7	4	11.3	11.0	13.4	10.6	11.0
Mississippi.....	5	5	4	6	3	12.6	18.0	17.0	17.0	20.0
West South Central.....	2,172	4,165	6,046	5,586	6,451	12.6	8.2	17.7	9.2	12.7
Texas.....	648	819	1,802	1,850	2,016	13.2	8.0	18.2	9.7	11.0
Oklahoma.....	1,436	3,316	4,214	3,708	4,413	12.0	8.2	17.5	9.0	13.5
Arkansas.....	88	30	30	28	22	11.8	13.0	13.5	11.5	11.5
Mountain.....	1,835	5,959	6,839	7,039	7,485	25.2	14.5	15.3	20.6	18.6
Montana.....	542	3,250	3,570	3,850	4,235	25.9	10.8	12.5	20.8	18.2
Wyoming.....	67	155	198	226	243	26.7	17.5	18.8	18.5	16.9
Colorado.....	419	1,268	1,485	1,419	1,339	23.2	11.8	12.7	14.2	13.9
New Mexico.....	50	80	249	55	186	21.4	6.2	22.7	10.4	11.0
Arizona.....	25	32	38	58	47	27.9	23.0	25.0	25.0	27.0
Utah.....	220	233	237	242	257	24.0	26.2	23.2	23.5	36.7
Nevada.....	32	15	17	18	18	28.1	30.4	24.0	25.6	26.8
Idaho.....	480	926	1,045	1,171	1,160	27.5	28.1	23.6	27.6	24.8
Pacific.....	3,417	3,639	3,786	4,138	4,078	21.2	19.4	18.9	23.9	21.7
Washington.....	2,207	2,072	2,107	2,261	2,271	21.9	19.4	19.4	25.8	21.4
Oregon.....	774	964	1,026	1,065	1,027	21.9	19.6	18.2	25.1	22.7
California.....	436	603	653	812	780	16.2	19.0	18.4	16.8	21.0

Source: Bureau of Agricultural Economics, Department of Agriculture.

## AND FARM VALUE, BY STATES

Production					Farm value, Dec 1					Division and State
1909-1913, average	1925	1926	1927	1928 (preliminary)	Amount			Per bushel, 1928	Per acre, 1928	
					1926	1927	1928 (preliminary)			
1,000 bushels 690, 108	1,000 bushels 676, 765	1,000 bushels 831, 381	1,000 bushels 878, 374	1,000 bushels 902, 749	1,000 dollars 996, 308	1,000 dollars 979, 813	1,000 dollars 877, 193	Cents 97	Dollars 15 20	U. S.
101	238	160	92	96	263	154	153	159	30 60	New Eng.
75	196	120	72	80	210	126	132	165	33 00	Me.
26	42	40	20	16	53	28	21	131	21 00	Vt
29, 297	29, 674	29, 740	27, 972	23, 073	38, 545	35, 387	30, 064	130	20 26	Mid. Atlantic.
6, 674	5, 998	4, 887	6, 291	4, 702	6, 444	7, 875	6, 423	137	20 34	N Y.
1, 478	1, 176	1, 320	1, 380	1, 200	1, 742	1, 725	1, 488	124	24 80	N J
21, 145	22, 500	23, 533	20, 301	17, 171	30, 359	25, 787	22, 148	129	19 99	Pa.
31, 320	29, 049	36, 371	28, 425	28, 909	48, 844	38, 135	39, 590	137	19 51	S. Atlantic.
1, 799	1, 887	2, 060	1, 862	1, 836	2, 678	2, 328	2, 295	125	22 50	Del.
9, 108	10, 395	11, 960	9, 188	8, 745	15, 548	11, 669	11, 106	127	20 95	Md.
9, 108	8, 946	11, 336	8, 381	9, 758	14, 850	11, 063	13, 173	135	19 57	Va
2, 980	1, 809	2, 352	1, 796	1, 586	3, 175	2, 461	2, 173	137	17 81	W Va
6, 124	4, 466	6, 303	5, 168	5, 150	9, 013	7, 494	7, 828	152	17 63	N. C.
784	506	800	880	800	1, 240	1, 338	1, 288	161	20 13	S. C.
1, 417	1, 040	1, 560	1, 150	1, 034	2, 340	1, 782	1, 727	167	18 37	Ga
110, 209	103, 708	136, 063	114, 073	59, 608	168, 783	139, 237	71, 828	121	16 57	E. N. Central.
28, 918	24, 304	40, 384	29, 068	9, 475	51, 286	36, 335	12, 388	131	14 21	Ohio.
30, 255	25, 700	34, 048	27, 749	9, 500	42, 216	34, 406	11, 871	124	13 05	Ind
33, 677	36, 880	41, 034	34, 844	24, 200	50, 061	41, 696	27, 143	112	17 37	Ill.
14, 030	14, 557	17, 998	19, 270	14, 202	21, 958	23, 124	18, 164	128	20 48	Mich.
3, 329	2, 267	2, 599	3, 142	2, 141	3, 262	3, 676	2, 262	106	21 75	Wis.
356, 084	314, 838	333, 224	405, 591	476, 640	395, 978	444, 057	431, 843	91	13 79	W N. Central
59, 613	30, 269	24, 811	20, 925	23, 955	30, 441	22, 949	22, 948	96	14 35	Minn
12, 000	6, 303	8, 078	8, 236	8, 270	9, 688	9, 623	8, 276	100	19 34	Iowa
31, 011	22, 515	21, 474	15, 700	19, 194	26, 630	19, 146	23, 188	121	15 35	Mo
89, 813	112, 387	77, 081	130, 191	142, 923	90, 185	133, 745	115, 469	81	11 14	N Dak
38, 608	31, 835	11, 611	45, 386	34, 546	13, 682	47, 990	29, 320	85	8 99	S Dak
49, 555	34, 150	40, 085	73, 826	69, 919	46, 753	30, 352	65, 498	94	17 84	Nebr
75, 984	77, 388	150, 084	111, 327	177, 833	178, 599	130, 252	167, 144	94	15 96	Kans.
16, 985	7, 975	12, 855	6, 684	4, 738	17, 357	9, 186	6, 732	142	12 38	E. S. Central.
8, 896	3, 220	4, 773	2, 812	920	6, 348	3, 796	1, 270	138	11 04	Ky
7, 705	4, 588	7, 920	3, 696	3, 714	10, 771	5, 137	5, 311	143	12 59	Tenn
304	77	94	74	44	160	115	69	157	17 25	Ala
60	90	68	102	60	88	138	82	137	27 33	Miss
27, 395	34, 133	106, 946	51, 639	82, 005	128, 892	62, 161	84, 279	103	13 06	W. S. Central.
8, 944	6, 552	32, 796	17, 945	22, 176	39, 355	21, 713	24, 394	110	12 10	Tex
17, 418	27, 191	73, 745	33, 372	59, 576	87, 019	40, 046	59, 576	100	13 50	Okl
1, 033	390	405	322	253	518	402	309	122	14 05	Ark
46, 169	86, 549	104, 400	145, 038	139, 388	114, 115	142, 431	120, 673	87	16 12	Mountain.
13, 593	35, 021	44, 744	80, 208	77, 218	50, 123	77, 089	64, 378	83	15 20	Mont.
1, 766	2, 720	3, 714	4, 186	4, 098	3, 974	3, 953	3, 388	83	13 94	Wyo
9, 955	14, 988	18, 793	20, 112	18, 564	20, 124	20, 818	15, 815	85	11 81	Colo
1, 064	492	5, 653	570	2, 054	6, 242	676	2, 201	107	11 83	N. Mex
708	736	950	1, 450	1, 269	1, 235	1, 958	1, 650	130	35 11	Ariz.
5, 302	6, 094	5, 505	5, 678	6, 861	5, 772	5, 792	6, 738	98	26 22	Utah.
887	456	408	460	482	472	575	590	122	32 78	Nev.
13, 254	26, 042	24, 633	32, 374	28, 792	26, 173	31, 570	25, 913	90	22 34	Idaho.
72, 588	70, 601	71, 622	88, 860	88, 342	85, 531	109, 065	92, 031	104	22 57	Pacific
48, 479	40, 251	40, 901	58, 436	48, 644	47, 464	62, 971	48, 620	100	21 41	Wash
16, 945	18, 893	18, 706	26, 782	23, 318	22, 447	29, 996	24, 083	103	23 45	Oreg
7, 144	11, 457	12, 015	13, 642	16, 380	15, 620	16, 098	19, 328	118	24 78	Calif

## No. 652.—OATS: AREA, PRODUCTION,

Division and State	Acres					Yield per acre				
	1909-1913, average	1925	1926	1927	1928 (preliminary)	1909-1913, average	1925	1926	1927	1928 (preliminary)
	Thousands 37,367	Thousands 44,872	Thousands 44,177	Thousands 41,841	Thousands 41,733	Bushels 30 6	Bushels 33 2	Bushels 28 2	Bushels 28 2	Bushels 34 7
<b>United States</b> .....										
New England.....	241	255	256	243	233	37 7	42 1	37 5	37 4	34 2
Maine.....	132	135	136	124	120	38 5	45 0	38 0	37 0	35 0
New Hampshire.....	12	12	11	11	10	36 4	39 0	40 0	39 0	39 0
Vermont.....	76	84	82	83	79	38 1	40 0	38 0	39 0	34 0
Massachusetts.....	8	9	9	8	7	34 1	38 0	34 0	35 0	32 0
Rhode Island.....	2	2	3	2	2	28 7	33 0	32 0	32 0	28 0
Connecticut.....	11	13	15	15	15	31 6	33 0	32 0	32 0	27 0
Middle Atlantic.....	2,482	2,224	2,178	2,149	2,137	31 0	35 3	33 0	35 5	32 7
New York.....	1,280	1,017	1,017	1,000	1,020	31 3	36 0	34 0	35 0	33 0
New Jersey.....	70	50	50	49	50	29 5	30 0	33 0	36 0	30 0
Pennsylvania.....	1,132	1,157	1,111	1,100	1,067	30 7	35 0	32 0	36 0	32 5
South Atlantic.....	1,356	1,501	1,662	1,633	1,248	20 8	20 2	24 6	22 4	23 7
Delaware.....	4	4	4	4	4	30 1	25 0	28 0	29 0	30 0
Maryland.....	46	55	52	51	54	28 1	32 0	32 8	33 5	31 5
Virginia.....	193	192	156	186	182	20 9	21 5	26 0	21 5	25 5
West Virginia.....	110	188	207	217	204	24 2	27 0	28 0	24 2	28 0
North Carolina.....	220	258	310	273	191	17 9	19 0	22 0	21 0	22 0
South Carolina.....	338	378	416	449	337	21 5	19 0	25 2	23 0	23 0
Georgia.....	401	413	475	442	265	20 3	17 0	23 0	21 0	20 0
Florida.....	44	13	12	11	11	16 4	14 0	16 7	11 0	17 4
East North Central.....	11,563	13,215	12,838	11,895	13,722	33 5	36 2	31 8	30 2	38 2
Ohio.....	1,836	2,000	1,980	1,900	2,413	35 2	41 5	38 0	32 0	37 0
Indiana.....	1,736	2,138	2,050	1,948	2,532	31 2	28 0	30 0	25 0	37 0
Illinois.....	4,263	4,855	4,661	4,008	4,649	34 1	32 5	26 5	25 5	37 5
Michigan.....	1,486	1,619	1,570	1,617	1,633	31 6	32 0	33 0	33 5	35 8
Wisconsin.....	2,242	2,603	2,577	2,422	2,495	33 7	43 5	37 5	38 5	43 5
West North Central.....	16,807	22,513	21,094	20,333	19,516	28 9	34 1	24 4	27 3	34 5
Minnesota.....	2,966	4,770	4,532	4,350	4,089	32 8	42 0	28 5	26 8	37 5
Iowa.....	4,602	6,221	6,213	6,001	6,001	33 8	39 2	31 5	32 0	40 8
Missouri.....	1,170	1,923	2,173	1,565	1,606	25 9	26 0	20 0	17 0	28 0
North Dakota.....	2,208	2,354	2,024	2,125	1,934	25 9	27 0	17 0	21 5	31 0
South Dakota.....	1,558	2,834	1,984	2,550	2,193	24 1	34 0	11 7	29 3	27 0
Nebraska.....	2,385	2,699	2,537	2,441	2,392	23 6	27 4	20 7	28 6	33 0
Kansas.....	1,618	1,712	1,626	1,301	1,301	25 6	23 0	21 6	23 5	29 0
East South Central.....	879	684	683	543	604	20 3	20 3	24 2	18 1	23 2
Kentucky.....	166	247	259	215	305	22 5	21 0	24 5	19 0	26 0
Tennessee.....	311	221	276	179	188	21 0	22 0	25 0	17 0	21 5
Alabama.....	282	131	107	101	70	18 9	17 0	22 0	17 5	17 5
Mississippi.....	120	85	41	48	41	18 2	19 0	22 0	19 0	20 0
West South Central.....	1,825	2,522	3,577	3,357	2,491	25 8	17 6	35 6	20 2	25 4
Louisiana.....	87	30	30	35	44	21 8	21 0	26 6	17 5	24 5
Texas.....	746	1,091	1,964	2,008	1,402	23 5	12 3	42 6	21 0	25 5
Oklahoma.....	837	1,140	1,340	1,112	890	23 5	23 0	28 0	19 0	26 0
Arkansas.....	205	261	243	207	155	23 3	16 0	22 0	20 0	22 0
Mountain.....	1,366	1,233	1,200	1,148	1,123	42 2	29 5	28 8	33 2	36 1
Montana.....	425	605	641	596	554	46 1	22 5	26 0	40 0	36 5
Wyoming.....	180	134	120	120	132	36 3	35 0	35 0	36 0	31 0
Colorado.....	289	214	195	189	193	38 0	27 0	24 0	29 0	31 0
New Mexico.....	45	36	54	30	36	34 2	20 0	28 0	22 0	20 0
Arizona.....	6	12	15	17	14	41 4	30 0	35 0	36 0	38 0
Utah.....	87	60	54	51	55	45 2	47 0	40 0	42 0	45 0
Nevada.....	9	2	2	2	2	42 5	40 0	32 0	40 0	40 0
Idaho.....	325	170	119	143	137	44 5	49 0	40 0	47 0	47 0
Pacific.....	838	725	689	640	659	40 8	37 2	34 4	37 3	39 0
Washington.....	282	254	229	183	201	47 8	44 0	43 0	50 0	47 0
Oregon.....	354	320	304	310	304	37 5	33 0	29 0	34 0	36 0
California.....	202	151	156	147	154	34 6	34 7	32 5	28 5	34 5

Source: Bureau of Agricultural Economics, Department of Agriculture

## AND FARM VALUE, BY STATES

Production					Farm value, Dec 1					Division and State
1909- 1913, average	1925	1926	1927	1928 (pre- limi- nary)	Amount			Per bushel, 1928	Per acre, 1928	
					1926	1927	1928 (pre- limi- nary)			
1,000 bushels 1,143,407	1,000 bushels 1,487,550	1,000 bushels 1,246,848	1,000 bushels 1,182,594	1,000 bushels 1,449,531	1,000 dollars 496,582	1,000 dollars 531,762	1,000 dollars 592,674	Cents 41	Dol- lars 14 20	U. S.
9,084 5,078 422 2,905 280 57 342	10,740 6,075 468 3,360 342 66 429	9,606 5,168 440 3,116 306 96 480	9,078 4,588 429 3,237 2,686 224 64 480	7,961 4,200 390 2,686 224 56 405	6,010 3,256 286 1,870 214 67 317	6,099 3,120 300 2,104 196 48 331	5,554 2,940 254 1,880 157 39 284	70 24 65 70 70 70 70	23 84 24 50 25 40 23 80 22 43 19 50 18 98	New Eng. Me N H. Vt Mass R I Conn.
76,931 40,071 2,082 34,778	78,607 36,612 1,500 40,495	71,780 34,578 1,650 35,552	76,364 35,000 1,764 39,600	69,838 33,660 1,500 34,678	35,584 17,289 825 17,420	41,569 19,250 935 21,384	37,350 18,176 795 18,379	54 54 53 53	17 48 17 82 15 90 17 22	Mid. Atl. N Y. N. J. Pa.
28,191 120 1,301 4,038 2,670 3,935 7,265 8,136 726	30,351 100 1,760 4,128 5,076 4,902 7,182 7,021 182	40,878 112 1,706 4,836 5,796 6,820 10,483 10,925 200	36,537 116 1,708 3,999 5,251 5,733 10,327 9,282 121	29,618 120 1,701 4,641 5,712 4,203 7,751 5,300 191	26,784 66 853 3,047 3,420 4,706 7,024 7,538 130	25,853 79 922 2,559 3,361 3,428 7,745 6,962 97	22,366 72 953 2,970 3,599 3,278 6,821 4,505 168	76 60 56 64 63 78 88 85 88	17 92 18 00 17 65 16 32 17 64 17 16 20 24 17 00 15 27	S. Atl. Del. Md. Va. W Va. N C. S. C. Ga. Fla.
387,565 65,233 54,719 145,117 46,964 75,532	478,708 83,000 59,864 157,788 51,808 126,246	408,704 83,000 61,500 123,516 51,810 96,638	359,121 60,800 48,700 102,204 54,170 93,247	524,296 89,281 93,684 174,338 58,461 108,532	153,479 29,344 93,684 43,231 20,724 38,655	182,977 27,360 20,941 43,948 26,002 42,669	210,216 37,498 34,663 66,248 25,138 46,669	40 42 37 38 43 43	15 32 15 54 13 69 14 25 15 39 18 71	E. N. C. Ohio. Ind Ill Mich. Wis.
485,175 97,294 166,175 30,135 57,627 37,668 55,986 40,290	787,444 200,340 243,863 49,998 63,558 96,356 73,953 39,376	513,748 129,162 195,867 43,460 34,408 23,213 52,616 35,122	556,007 116,580 192,032 26,605 45,688 74,715 69,813 30,574	674,176 153,338 240,040 44,968 59,954 59,211 78,936 37,729	186,893 43,915 68,553 18,253 11,355 8,357 21,006 15,454	224,360 46,632 80,653 12,504 15,991 26,897 27,925 13,758	244,738 53,668 88,815 18,887 17,986 19,540 20,996 15,846	36 35 37 42 30 33 38 42	12 54 13 12 14 80 11 76 9 30 8 91 12 54 12 18	W. N. C. Minn Iowa Mo N. Dak. S. Dak. Nebr Kans.
17,823 3,717 6,549 5,354 2,203	13,891 5,187 4,862 2,227 1,615	16,502 6,346 4,900 2,354 902	9,808 4,085 3,043 1,768 912	14,017 7,930 4,042 1,225 820	9,354 3,363 3,795 1,601 595	8,153 2,451 1,826 1,238 638	8,479 4,520 2,425 919 615	61 57 60 75 75	14 04 14 82 12 90 13 13 15 00	E. S. C. Ky Tenn. Ala Miss.
47,174 782 22,889 18,678 4,825	44,445 630 13,419 26,220 4,176	127,330 798 83,666 37,520 5,346	67,943 612 42,063 21,128 4,140	63,379 1,078 35,751 23,140 3,410	48,966 511 31,793 13,882 2,780	31,871 404 19,770 9,296 2,401	31,822 701 18,233 10,876 2,012	50 65 51 47 59	12 77 15 93 13 00 12 22 12 98	W. S. C. La Tex Okla Ark.
57,678 19,533 6,595 10,966 1,542 249 3,928 373 14,492	36,390 13,612 4,690 5,778 720 360 2,820 80 8,330	34,567 16,666 4,200 4,680 1,512 525 2,160 64 4,760	43,856 23,840 4,320 5,481 660 612 2,142 80 6,721	40,542 20,221 4,092 5,983 720 532 2,475 80 6,439	17,501 8,833 1,890 2,059 847 394 1,296 40 2,142	20,430 8,291 1,814 2,631 370 428 1,285 52 3,360	18,184 8,291 1,814 2,692 432 399 1,386 52 3,091	45 41 45 45 60 75 56 65 48	16 19 14 97 13 95 13 95 12 00 28 50 25 20 26 00 22 56	Mountain. Mont. Wyo Colo N Mex. Ariz Utah. Nev Idaho.
33,786 13,493 13,292 7,001	26,976 11,176 10,560 5,240	23,733 9,847 8,816 5,070	23,880 9,160 10,540 4,190	25,704 9,447 10,944 5,313	12,061 5,219 4,408 2,434	13,350 5,124 5,586 2,640	13,965 5,196 5,581 3,188	54 55 51 60	21 19 25 85 18 36 20 70	Pacific. Wash. Oreg Calif.

## No. 653.—BARLEY: AREA, PRODUCTION,

Division and State	Acres					Yield per acre				
	1909-1913, average	1925	1926	1927	1928 (preliminary)	1909-1913, average	1925	1926	1927	1928 (preliminary)
United States	Thousands 7, 619	Thousands 7, 997	Thousands 7, 970	Thousands 9, 476	Thousands 12, 539	Bushels 24 3	Bushels 26 7	Bushels 23 2	Bushels 28 1	Bushels 23 5
New England	17	9	10	10	10	29 1	33 0	30 0	28 2	26 2
Maine	4	3	4	4	4	28 3	35 0	30 0	27 0	28 0
New Hampshire	1					26 2				
Vermont	12	6	6	6	6	31 7	32 0	30 0	29 0	25 0
Middle Atlantic	87	173	198	211	200	28 2	28 7	28 2	29 0	27 5
New York	80	157	179	188	169	26 2	29 0	28 3	29 0	27 5
New Jersey		1	1	2	2		27 0	33 0	37 0	30 0
Pennsylvania	7	15	18	21	29	25 4	25 5	27 0	28 0	27 0
South Atlantic	14	38	39	42	59	28 2	27 4	30 0	28 0	26 2
Maryland	4	12	10	9	13	28 4	33 0	34 3	30 5	31 0
Virginia	10	16	14	13	14	26 4	26 0	31 0	26 0	29 0
North Carolina		10	15	20	32		23 0	26 0	24 0	23 0
East North Central	983	982	1, 095	1, 449	2, 102	26 7	33 1	32 3	31 1	31 6
Ohio	25	110	116	155	333	27 3	31 0	32 0	27 0	27 6
Indiana	9	32	23	35	94	26 3	33 0	25 0	23 8	24 0
Illinois	57	250	302	453	680	28 7	33 0	31 0	29 5	29 5
Michigan	90	129	133	186	270	25 1	24 5	28 5	28 5	30 0
Wisconsin	802	461	521	620	725	26 8	36 8	34 5	34 5	37 1
West North Central	4, 491	4, 539	4, 327	5, 482	7, 711	20 5	24 9	18 0	27 3	27 3
Minnesota	1, 488	1, 098	1, 307	1, 460	2, 000	23 2	30 0	25 0	30 0	30 0
Iowa	493	175	268	454	808	25 9	31 3	30 5	31 4	33 5
Missouri	6	6	9	7	17	23 8	31 0	24 0	23 0	22 0
North Dakota	1, 162	1, 732	1, 472	1, 663	2, 179	19 2	22 5	14 3	25 5	25 5
South Dakota	1, 007	915	778	1, 200	1, 644	17 3	26 0	10 1	30 0	21 7
Nebraska	117	233	227	246	430	17 9	24 3	20 7	30 8	32 6
Kansas	218	380	266	452	633	14 8	16 0	11 4	12 6	27 9
East South Central	6	28	47	48	23	23 8	23 6	30 4	20 0	20 4
Kentucky	3	6	7	6	2	25 9	26 0	33 0	27 0	25 0
Tennessee	3	22	40	42	21	25 2	23 0	30 0	19 0	20 0
West South Central	14	242	284	231	179	22 1	10 7	31 9	16 1	21 1
Texas	5	116	174	195	156	24 1	7 2	35 0	16 0	21 0
Oklahoma	9	126	110	36	23	18 4	14 0	27 0	16 5	22 0
Mountain	352	749	744	860	1, 051	37 6	26 5	23 4	30 0	29 5
Montana	37	130	150	195	209	33 6	21 0	24 0	33 0	30 5
Wyoming	11	34	42	59	77	31 9	33 0	33 0	34 0	30 0
Colorado	79	410	380	410	547	33 7	21 0	16 0	22 0	24 0
New Mexico	2	5	8	8	12	31 4	17 0	26 0	18 0	19 0
Arizona	35	20	25	20	17	38 3	35 0	38 0	35 0	38 0
Utah	26	18	20	30	34	40 5	43 0	40 0	47 0	49 0
Nevada	12	8	7	9	11	40 0	48 0	40 0	45 0	40 0
Idaho	150	124	112	129	144	40 1	44 0	37 0	44 0	43 0
Pacific	1, 655	1, 237	1, 226	1, 143	1, 204	29 8	31 4	30 1	28 8	31 1
Washington	177	91	64	58	55	37 8	34 0	34 0	42 0	35 5
Oregon	115	96	82	91	105	33 6	33 0	28 0	35 0	35 0
California	1, 363	1, 050	1, 080	994	1, 044	28 3	31 0	30 0	27 5	30 5

Source: Bureau of Agricultural Economics, Department of Agriculture.



# BARLEY CROP

685

## AND FARM VALUE, BY STATES

Production					Farm value, Dec 1					Division and State
1909-1913, average	1925	1926	1927	1928 (preliminary)	Amount			Per bushel, 1928	Per acre, 1928	
					1926	1927	1928 (preliminary)			
1,000 bushels	1,000 bushels	1,000 bushels	1,000 bushels	1,000 bushels	1,000 dollars	1,000 dollars	1,000 dollars	Cents	Dollars	United States
184,812	213,863	184,905	265,882	356,868	108,237	180,200	197,128	55	15 72	
526	297	300	282	262	263	267	288	110	23 80	New England
119	105	120	108	112	110	102	123	110	30 75	Maine.
26										New Hampshire
381	192	180	174	150	153	165	165	110	27 50	Vermont
2,280	4,963	5,585	6,114	5,491	4,217	4,911	4,335	79	21 68	Middle Atlantic
2,093	4,553	5,066	5,452	4,648	3,800	4,362	3,625	78	21 45	New York.
	27	33	74	60	28	61	52	86	26 00	New Jersey
187	383	486	588	783	389	488	658	84	22 69	Pennsylvania
395	1,042	1,167	1,092	1,545	1,055	1,060	1,571	102	26 63	South Atlantic.
126	396	343	274	403	274	238	343	85	26 38	Maryland
269	416	434	338	406	391	294	345	85	24 64	Virginia
	230	390	480	736	390	528	883	120	27 59	North Carolina
26,294	32,521	35,413	45,073	66,505	22,258	33,448	40,632	61	19 33	East North Central.
675	3,410	3,712	4,185	9,191	2,301	3,013	5,515	60	16 56	Ohio
242	736	575	833	2,256	380	608	1,331	59	14 16	Indiana
1,633	8,250	9,362	13,364	20,060	5,430	9,756	10,632	53	15 64	Illinois
2,249	3,160	3,790	5,301	8,100	2,464	4,029	5,670	70	21 00	Michigan
21,495	16,965	17,974	21,390	26,898	11,683	16,042	17,484	65	24 12	Wisconsin.
92,268	113,106	77,704	149,895	210,360	39,758	91,231	101,912	48	13 22	West North Central
34,187	32,940	32,675	43,800	60,000	16,664	28,470	30,000	50	15 00	Minnesota
12,714	5,478	8,174	14,256	27,068	4,577	9,409	14,617	54	18 09	Iowa
154	186	216	161	374	173	153	299	80	17 59	Missouri
22,534	38,970	21,050	42,406	55,564	9,683	25,020	23,893	43	10 97	North Dakota
17,237	28,790	7,858	36,000	35,675	4,086	20,880	17,124	48	10 42	South Dakota
2,085	5,662	4,699	7,577	14,018	2,725	4,167	7,149	51	16 63	Nebraska
3,075	6,080	3,032	5,695	17,661	1,850	3,132	8,830	50	13 95	Kansas
143	662	1,431	960	470	1,351	945	508	108	22.09	East South Central.
78	156	231	162	50	199	147	46	91	23 00	Kentucky
65	506	1,200	798	420	1,152	798	462	110	22 00	Tennessee
309	2,599	9,060	3,714	3,782	4,951	2,570	2,720	72	15 20	West South Central
132	835	6,090	3,120	3,276	3,228	2,184	2,391	73	15 33	Texas
177	1,764	2,970	594	506	1,723	386	329	65	14 30	Oklahoma.
13,246	19,861	17,373	25,796	30,964	10,668	16,018	18,224	59	17 34	Mountain
1,244	2,730	3,600	6,435	6,374	2,304	3,861	3,569	56	17.08	Montana
345	1,122	1,386	2,006	2,310	859	1,224	1,409	61	18 30	Wyoming.
2,663	8,610	6,080	9,020	13,128	3,344	5,051	7,089	54	12 96	Colorado
72	85	208	144	228	135	101	171	75	15 25	New Mexico.
1,356	700	875	700	646	744	525	517	80	30 41	Arizona
1,044	774	800	1,410	1,666	576	1,072	1,216	73	35 76	Utah
480	384	280	405	440	238	324	352	80	32 00	Nevada.
6,042	5,456	4,144	5,676	6,192	2,486	3,860	3,901	63	27 09	Idaho.
49,333	38,812	36,872	32,956	37,469	21,698	29,750	26,938	72	22 37	Pacific
6,714	3,094	2,176	2,436	1,952	1,414	1,876	1,366	70	24 84	Washington
3,884	3,168	2,296	3,185	3,675	1,492	2,452	2,646	72	25 20	Oregon
38,735	32,550	32,400	27,335	31,842	18,792	25,422	22,926	72	21 96	California

## No. 654.—RYE AND RICE: AREA, PRODUCTION,

## RYE

Division and State	Acres					Yield per acre				
	1909-1913, average	1925	1926	1927	1928 (preliminary)	1909-1913, average	1925	1926	1927	1928 (preliminary)
United States	Thous- sands 2, 167	Thous- sands 3, 974	Thous- sands 3, 574	Thous- sands 3, 648	Thous- sands 3, 444	Bushels 16 1	Bushels 11. 7	Bushels 11. 4	Bushels 15 9	Bushels 12. 1
Massachusetts	4					17 2				
Connecticut	8	1				18. 8	19. 0			
New York	145	37	25	21	20	17 1	16. 5	15. 5	17. 5	15. 7
New Jersey	76	44	41	36	41	17 2	18 0	19 0	20. 0	18 5
Pennsylvania	317	113	93	86	103	16. 5	17 0	16. 0	17. 0	15. 5
Delaware	1	5	4	3	3	14. 5	15 0	15 0	15. 0	15 0
Maryland	25	18	15	14	15	14 9	19 0	18 0	15 3	15 0
Virginia	38	36	43	42	46	14 4	12 0	13 5	11 8	13 5
West Virginia	15	10	12	8	7	12 8	13 0	13 0	13 0	13 5
North Carolina	33	80	104	94	89	9 8	11 5	13 0	12 0	11. 5
South Carolina	3	7	8	9	7	10 0	10 5	14 0	13 0	11 5
Georgia	13	20	22	26	22	9 5	9. 3	12. 0	10 0	10. 0
Ohio	65	55	50	35	30	16 2	15 0	17 5	16 0	13 3
Indiana	70	145	145	119	86	13 1	11 4	14 5	13 6	11. 0
Illinois	58	80	83	62	62	16 9	13. 8	15 0	14 5	14 5
Michigan	370	216	173	173	182	14 6	12 5	13 5	14 7	13. 0
Wisconsin	343	256	256	238	167	17 0	14 8	15. 0	17. 0	13. 0
Minnesota	207	448	440	383	402	19 3	13 0	13. 5	18. 3	14 8
Iowa	42	32	31	43	54	18 3	16 4	17 5	15. 0	18. 0
Missouri	15	22	24	16	19	14 8	12 0	12. 9	11 0	12 0
North Dakota	50	1, 587	1, 222	1, 381	1, 271	15 2	10 0	7 6	16. 7	10. 0
South Dakota	29	177	103	154	162	15 4	9 5	6. 2	18 0	9 0
Nebraska	76	205	253	274	249	15 2	12 3	10 3	15 0	14 0
Kansas	34	43	41	45	32	13 8	8 9	11 7	12. 8	16. 2
Kentucky	18	15	18	14	7	12 6	13 0	15 5	11 0	12. 4
Tennessee	14	20	32	26	25	11 4	11 0	14 0	8 0	8. 2
Alabama	1					11 2				
Texas	3	14	20	14	15	12 9	4 0	19 0	7 0	12 0
Oklahoma	4	33	36	22	26	11 6	12 0	15 5	9 0	12. 0
Arkansas	1	1	1	1	1	10. 9	11 0	11 0	10. 0	9. 0
Montana	9	80	107	134	154	23. 3	12 5	12. 0	18 0	14 0
Wyoming	2	57	51	54	40	20 5	12 0	14 0	12 5	11. 0
Colorado	15	85	85	76	74	16. 9	10 0	11 5	10 5	11 0
Utah	6	3	4	4	3	17 6	11 0	9 0	10 0	8 0
Idaho	3	3	3	3	3	21 6	20. 0	15. 5	16. 0	16. 0
Washington	7	15	18	22	18	20. 9	11 0	12 0	16 0	15 5
Oregon	17	10	10	10	8	17 0	14. 0	13. 0	16 0	15 0
Other States	30	1	1	1	1		4. 0	18. 0	6. 0	12. 0

## RICE (ROUGH)

United States	716	889	1, 034	1, 012	965	33 3	37. 5	40 4	44 2	43. 4
South Carolina	12	5	5			22 7	16 0	17 0		
Georgia	3	3	3			26 9	17. 0	20. 0		
Florida	1					24 2				
Mississippi	2	1	1			31 8	18 0			
Louisiana	363	430	501	500	484	32 4	33. 3	32 5	40 0	38 0
Texas	261	168	166	174	174	33 8	37. 0	37 0	46. 2	42. 0
Arkansas	71	175	199	175	164	38 5	43 0	53 0	44. 0	47 0
California	2	103	149	160	133	34 2	46 6	53 6	56 0	60 7
Other States	1	4	10	8	10		75. 0	61. 0	25 0	40 0

Source: Bureau of Agricultural Economics, Department of Agriculture.

AND FARM VALUE, BY STATES

RYE

Production					Farm value, Dec 1					Division and State
1909-1913, average	1925	1926	1927	1928 (preliminary)	Amount			Per bushel, 1928	Per acre, 1928	
					1926	1927	1928 (preliminary)			
1,000 bushels 36,093	1,000 bushels 46,456	1,000 bushels 40,749	1,000 bushels 58,164	1,000 bushels 41,766	1,000 dollars 33,991	1,000 dollars 49,609	1,000 dollars 36,067	Cents 86	Dollars 10.47	United States.
55 143	19									Massachusetts Connecticut.
2,289	610	388	368	314	388	386	352	112	17.60	New York
1,232	792	779	720	758	740	698	788	104	19.22	New Jersey.
4,641	1,921	1,488	1,462	1,596	1,443	1,535	1,708	107	16.58	Pennsylvania.
15	75	60	45	45	66	52	54	120	18.00	Delaware
415	342	270	214	225	284	235	259	115	17.27	Maryland
626	432	580	496	621	650	570	745	120	16.20	Virginia
215	130	156	104	94	172	114	108	115	15.43	West Virginia.
463	920	1,352	1,128	1,024	1,690	1,523	1,485	145	16.69	North Carolina.
30	74	112	117	80	196	205	148	185	21.14	South Carolina.
114	186	264	260	220	422	429	385	175	17.50	Georgia.
1,131	825	875	560	399	770	515	411	103	13.70	Ohio.
1,226	1,653	2,102	1,618	946	1,787	1,424	889	94	10.34	Indiana.
902	1,104	1,245	899	899	1,071	827	827	92	13.34	Illinois
5,801	2,700	2,336	2,617	2,366	1,822	2,329	2,200	93	12.09	Michigan
6,135	3,789	3,840	4,046	2,171	3,226	3,641	1,954	90	11.70	Wisconsin.
5,127	5,824	5,940	7,009	5,950	4,514	5,958	5,058	85	12.58	Minnesota.
739	525	542	645	972	444	555	836	86	15.48	Iowa
252	264	310	176	228	350	194	242	106	12.74	Missouri.
880	15,870	9,287	23,063	12,710	6,780	18,450	9,660	76	7.60	North Dakota.
314	1,682	639	2,772	1,458	466	2,190	1,152	79	7.11	South Dakota.
1,056	2,522	2,606	4,110	3,486	1,981	3,165	2,684	77	10.78	Nebraska.
365	383	480	576	518	451	530	425	82	13.28	Kansas
296	195	279	154	87	301	185	115	132	16.43	Kentucky.
223	220	448	208	205	538	268	283	138	11.32	Tennessee
11										Alabama.
21	56	380	98	180	369	93	185	103	12.33	Texas.
49	396	558	198	312	502	196	287	92	11.04	Oklahoma.
11	11	11	10	9	14	14	13	140	13.00	Arkansas
153	1,000	1,284	2,412	2,156	963	1,761	1,488	69	9.66	Montana
49	684	714	675	440	478	466	317	72	7.93	Wyoming.
342	850	978	798	814	694	559	570	70	7.70	Colorado
115	33	36	40	24	29	33	21	87	7.00	Utah
65	60	46	48	48	34	36	35	72	11.67	Idaho.
150	165	216	352	279	216	317	251	90	13.94	Washington.
300	140	130	160	120	125	152	122	102	15.25	Oregon
142	4	18	6	12	15	4	10	80	10.00	Other States.

RICE (ROUGH)

23,770	33,309	41,730	44,774	41,881	45,722	41,616	37,077	89	38.42	United States.
264	80	85			102					South Carolina.
15	51	60			66					Georgia
65										Florida
58	18				22					Mississippi.
11,754	14,319	16,282	20,000	18,392	17,096	17,400	16,553	90	34.20	Louisiana
8,823	6,216	6,142	8,039	7,308	6,756	6,914	6,431	88	36.96	Texas
2,692	7,525	10,547	7,700	7,708	10,547	6,930	6,629	86	40.42	Arkansas
74	4,800	7,986	8,960	8,073	10,462	10,304	7,104	88	53.41	California
25	300	610	75	400	671	68	360	90	36.00	Other States.

Division and State	Acres					Yield per acre				
	1909- 1913, aver- age	1925	1926	1927	1928 (pre- limi- nary)	1909- 1913, aver- age	1925	1926	1927	1928 (pre- limi- nary)
	Thou- sands 3, 677	Thou- sands 3, 074	Thou- sands 3, 120	Thou- sands 3, 476	Thou- sands 3, 825	Bushels 87	Bushels 104	Bushels 114	Bushels 116	Bushels 121
<b>United States</b> .....										
<b>New England</b> .....	222	196	188	225	239	172	214	247	203	195
Maine.....	126	135	127	161	172	209	250	290	232	220
New Hampshire.....	17	11	11	12	12	133	145	165	150	138
Vermont.....	26	19	20	21	21	181	125	155	155	142
Massachusetts.....	25	14	13	14	15	116	140	155	100	108
Rhode Island.....	5	2	3	2	2	123	140	150	110	122
Connecticut.....	23	15	14	15	17	106	135	155	109	130
<b>Middle Atlantic</b> .....	731	527	496	547	587	61	102	118	117	125
New York.....	378	270	248	270	284	95	86	117	106	114
New Jersey.....	86	55	50	57	57	94	106	145	161	160
Pennsylvania.....	267	202	198	220	246	84	123	112	120	130
<b>South Atlantic</b> .....	255	343	355	378	449	83	86	96	123	123
Delaware.....	11	6	6	6	7	89	64	86	119	94
Maryland.....	40	37	39	43	47	84	73	90	122	115
Virginia.....	96	130	124	130	151	83	90	94	152	143
West Virginia.....	45	47	47	52	60	86	87	106	113	125
North Carolina.....	31	58	67	72	95	75	78	94	102	111
South Carolina.....	10	25	29	29	36	83	96	111	105	113
Georgia.....	12	17	19	17	22	79	49	63	77	76
Florida.....	10	23	24	29	31	89	124	118	105	125
<b>East North Central</b> .....	1, 056	683	695	782	838	95	100	109	89	112
Ohio.....	192	113	107	116	123	83	106	94	105	98
Indiana.....	89	50	48	53	61	81	83	80	95	109
Illinois.....	137	72	61	64	70	73	60	80	84	110
Michigan.....	350	237	249	289	306	101	103	120	80	117
Wisconsin.....	288	211	230	260	278	108	112	118	92	115
<b>West North Central</b> .....	800	738	718	777	887	82	78	87	100	111
Minnesota.....	238	276	298	328	354	107	97	100	101	110
Iowa.....	168	83	74	75	81	78	63	79	82	135
Missouri.....	94	76	81	68	85	64	57	80	83	121
North Dakota.....	50	104	94	113	141	97	72	80	102	105
South Dakota.....	57	61	55	60	67	76	65	60	115	90
Nebraska.....	116	84	73	84	105	64	75	73	109	96
Kansas.....	77	54	43	49	54	56	67	91	110	140
<b>South Central</b> .....	117	119	123	136	153	75	59	82	85	93
Kentucky.....	53	46	47	52	57	75	60	96	91	105
Tennessee.....	39	37	35	39	43	70	56	78	88	95
Alabama.....	15	25	29	33	38	81	57	70	75	74
Mississippi.....	10	11	12	12	15	85	67	71	78	89
<b>West South Central</b> .....	127	123	141	150	179	61	62	64	66	74
Louisiana.....	22	30	36	41	41	68	60	61	65	70
Texas.....	47	26	30	35	39	55	53	70	66	69
Oklahoma.....	31	39	43	45	63	54	72	67	65	80
Arkansas.....	27	28	32	29	36	70	60	60	68	75
<b>Mountain</b> .....	189	206	249	298	318	129	170	145	168	139
Montana.....	29	35	35	36	37	151	108	85	135	115
Wyoming.....	10	12	13	17	21	116	120	112	137	112
Colorado.....	85	62	82	96	110	101	195	145	130	122
New Mexico.....	9	2	2	2	2	76	75	83	75	66
Arizona.....	1	3	4	4	3	95	57	55	80	74
Utah.....	16	15	17	22	23	165	160	145	135	144
Nevada.....	8	4	5	6	6	166	170	140	130	140
Idaho.....	31	73	91	115	116	175	196	178	212	170
<b>Pacific</b> .....	190	139	155	183	175	139	142	143	151	132
Washington.....	60	56	67	79	67	150	155	160	170	135
Oregon.....	49	40	45	52	52	137	104	100	120	120
California.....	71	43	43	52	56	129	159	161	153	138

Source: Bureau of Agricultural Economics, Department of Agriculture.

# POTATO CROP

689

## AND FARM VALUE, BY STATES

Production					Farm value, Dec 1					Division and State
1909-1913, average	1925	1926	1927	1928 (preliminary)	Amount			Per bushel, 1928	Per acre, 1928	
					1926	1927	1928 (preliminary)			
1,000 bushels 357,699	1,000 bushels 320,915	1,000 bushels 354,458	1,000 bushels 402,741	1,000 bushels 462,943	1,000 dollars 601,186	1,000 dollars 388,741	1,000 dollars 250,043	Cents 54	Dollars 65 37	U. S.
38,198	41,985	48,390	45,662	46,552	64,753	43,547	22,663	49	94 82	New Eng.
26,485	33,750	36,830	37,352	37,840	48,984	31,749	15,136	40	88 00	Me
2,268	1,595	1,815	1,800	1,656	3,086	2,520	1,325	80	110 42	N. H.
3,422	2,375	3,100	3,255	2,982	4,340	4,069	2,535	85	120 71	Vt.
2,933	1,960	2,015	1,400	1,620	3,627	2,170	1,458	90	97 20	Mass.
614	280	450	220	244	810	341	220	90	110 00	R. I.
2,476	2,025	2,170	1,635	2,210	3,906	2,698	1,989	90	117 00	Conn.
66,557	53,896	58,442	64,197	73,476	95,363	77,550	46,391	63	79 03	Mid. Atl.
36,024	23,220	29,016	28,620	32,376	46,426	35,775	21,044	65	74 10	N. Y.
8,141	5,830	7,250	9,177	9,120	11,238	10,095	4,560	50	80 00	N. J.
22,392	24,846	22,176	26,400	31,980	37,699	31,680	20,787	65	84 50	Pa.
21,216	29,483	34,237	46,347	55,326	56,636	63,714	37,236	67	82 93	S. Atl.
962	384	516	714	658	722	571	494	75	70 57	Del.
3,328	2,701	3,510	5,246	5,405	4,914	5,508	2,702	50	57 49	Md.
7,984	11,700	11,656	19,760	21,593	16,318	25,688	10,796	50	71 50	Va.
3,916	4,089	4,982	5,876	7,500	8,320	7,345	6,000	80	100 00	W. Va.
2,349	4,524	6,325	7,368	10,545	10,120	11,052	6,854	65	72 15	N. C.
813	2,400	3,219	3,084	4,068	5,472	5,765	2,644	65	73 44	S. C.
946	833	1,197	1,304	1,682	2,274	2,152	1,934	115	87 91	Ga.
918	2,852	2,832	3,045	3,875	8,496	5,633	5,812	150	187 48	Fla.
99,847	68,491	75,788	69,631	94,175	100,399	67,476	45,808	49	54 66	E. N. Cen.
16,090	11,973	10,058	12,180	12,054	17,099	14,616	9,040	75	73 50	Ohio.
7,322	4,150	3,840	5,035	6,649	6,336	5,538	4,654	70	76 30	Ind.
9,999	4,320	4,880	5,376	7,700	8,540	6,182	5,005	65	71 50	Ill.
35,289	24,411	29,880	23,120	35,802	35,856	20,808	14,321	40	46 80	Mich.
31,147	23,632	27,140	23,920	31,970	32,568	20,332	12,788	40	46 00	Wis.
65,903	57,704	62,188	77,642	98,635	84,673	54,144	38,726	39	43 66	W. N. Cen.
25,676	26,772	29,800	33,128	38,940	34,270	19,577	11,632	30	33 00	Minn.
13,311	5,229	5,846	6,150	10,935	9,938	6,150	5,577	51	68 85	Iowa.
6,107	4,332	6,480	5,644	10,285	11,016	6,491	6,171	60	72 60	Mo.
4,875	7,488	7,520	11,526	14,805	9,024	5,763	4,442	30	31 50	N. Dak.
4,328	3,965	3,300	6,900	6,030	5,247	3,795	2,412	40	36 00	S. Dak.
7,339	6,300	5,829	8,904	10,080	8,526	6,678	5,040	50	48 00	Nebr.
4,267	3,618	3,913	5,390	7,500	6,652	5,390	3,402	45	63 00	Kans.
8,782	6,994	10,124	11,575	14,212	16,671	16,041	12,450	88	81 37	S. Cen.
4,005	2,760	4,512	4,732	5,985	6,994	6,152	4,788	80	84 00	Ky.
2,722	2,072	2,730	3,432	4,085	4,286	4,633	3,676	90	85 49	Tenn.
1,243	1,425	2,030	2,475	2,812	3,857	3,712	2,390	85	62 89	Ala.
812	737	852	936	1,330	1,534	1,544	1,596	120	106 40	Miss.
7,717	7,666	9,076	8,872	13,301	16,786	16,432	11,501	87	64 25	W. S. Cen.
1,521	1,800	2,196	2,665	2,870	4,172	4,397	2,870	100	70 00	La.
2,604	1,378	2,100	2,310	2,691	4,200	3,812	2,691	100	69 00	Tex.
1,672	2,808	2,580	2,925	5,040	4,862	5,265	3,780	75	60 00	Okla.
1,920	1,680	1,920	1,972	2,700	3,552	2,958	2,160	80	60 00	Ark.
24,376	35,019	36,070	50,189	44,253	42,063	29,541	21,355	48	67 15	Mountain.
4,323	3,780	2,975	4,860	4,255	3,570	3,159	2,340	55	63 24	Mont.
1,164	1,440	1,456	2,329	2,562	1,820	1,630	1,529	65	72 81	Wyo.
8,557	12,090	11,890	14,400	13,420	15,457	7,926	6,089	45	54 90	Colo.
687	150	166	150	132	290	180	125	95	62 50	N. Mex.
95	171	220	320	222	440	352	244	110	81 33	Ariz.
2,745	2,400	2,465	2,970	3,312	2,588	2,228	1,490	45	64 78	Utah
1,395	680	700	780	840	910	663	714	85	119 00	Nev.
5,410	14,308	16,198	24,380	19,720	17,008	13,409	8,874	45	76 50	Idaho
25,103	19,677	22,143	27,626	23,013	23,822	20,296	13,913	61	79 50	Pacific.
9,074	8,680	10,720	13,430	9,045	10,184	8,058	4,522	50	67 49	Wash.
6,851	4,160	4,500	6,240	6,240	4,500	4,680	4,368	70	84 00	Oreg.
9,178	6,837	6,923	7,956	7,728	9,138	7,558	5,023	65	89 70	Calif.

## No. 656.—SWEET POTATOES AND TOBACCO: AREA

## SWEET POTATOES

State	Acres					Yield per acre				
	1909-1913, average	1925	1926	1927	1928 (preliminary)	1909-1913, average	1925	1926	1927	1928 (preliminary)
United States	Thousands 619	Thousands 779	Thousands 819	Thousands 933	Thousands 810	Bushels 93	Bushels 80	Bushels 101	Bushels 101	Bushels 96
New Jersey	23	16	17	15	15	130	117	145	126	145
Pennsylvania	1	1				109	115			
Delaware	5	8	9	8	7	127	110	139	110	140
Maryland	8	9	11	11	10	121	129	165	144	150
Virginia	36	37	43	43	44	198	108	125	135	144
West Virginia	2	3	3	2	2	103	92	110	110	102
North Carolina	80	80	84	89	80	96	88	90	114	98
South Carolina	49	52	47	53	49	93	55	80	100	86
Georgia	83	110	110	132	119	87	47	86	80	86
Florida	21	29	28	29	28	109	85	100	92	88
Ohio	1	3	3	3	3	106	115	105	133	120
Indiana	1	2	3	2	2	103	108	110	112	116
Illinois	9	12	13	10	10	95	88	110	103	98
Iowa	2	3	3	3	3	97	109	103	90	123
Missouri	7	10	10	12	11	85	95	112	112	105
Kansas	5	3	4	3	2	84	116	129	136	130
Kentucky	10	14	17	16	14	87	90	120	93	89
Tennessee	23	36	50	48	41	85	90	123	98	95
Alabama	67	65	65	78	70	91	70	100	98	93
Mississippi	55	62	55	69	55	91	96	104	112	110
Louisiana	59	72	79	99	74	88	80	90	98	90
Texas	42	84	92	133	109	66	73	93	90	76
Oklahoma	5	20	24	23	20	74	94	105	106	89
Arkansas	20	36	34	38	28	85	85	108	116	90
California	5	9	12	12	12	157	112	97	90	96
Other States		3	3	2	2		133	145	111	130

## TOBACCO

United States	Thousands 1,223	Thousands 1,757	Thousands 1,856	Thousands 1,585	Thousands 1,912	Pounds 817	Pounds 783	Pounds 784	Pounds 765	Pounds 718
Massachusetts	6	8	6	7	8	1,646	1,243	1,448	1,223	1,245
Connecticut	17	30	22	24	25	1,651	1,352	1,340	1,223	1,190
New York	4	2	1	1	1	1,215	1,100	1,100	1,200	1,275
Pennsylvania	43	41	33	34	37	1,311	1,400	1,320	1,360	1,340
Maryland	27	30	31	32	31	707	823	840	818	700
Virginia	185	200	189	177	186	745	647	725	723	600
West Virginia	13	9	10	4	7	741	775	850	775	750
North Carolina	198	547	565	659	730	640	695	684	737	651
South Carolina	30	96	85	104	148	740	740	668	737	556
Georgia	2	67	52	82	122	822	720	770	725	690
Florida	3	7	6	9	12	834	832	968	935	768
Ohio	94	52	44	30	42	866	974	846	819	800
Indiana	22	21	15	8	14	858	871	884	760	820
Wisconsin	40	32	29	31	37	1,190	1,375	1,150	1,070	1,325
Minnesota					1					1,200
Missouri	6	5	5	4	4	877	815	950	1,100	1,100
Kentucky	430	479	428	290	395	813	810	842	697	775
Tennessee	95	130	136	88	112	786	726	781	780	787
Louisiana	3	1	1	1	1		504	400	400	405

Source: Bureau of Agricultural Economics, Department of Agriculture

## PRODUCTION, AND FARM VALUE, BY STATES

## SWEET POTATOES

Production					Farm value, Dec. 1					State
1909-1913, average	1925	1926	1927	1928 (preliminary)	Amount			Per bush- el, 1925	Per acre, 1925	
					1926	1927	1928 (prel.)			
<i>1,000 bushels</i> 57,355	<i>1,000 bushels</i> 62,319	<i>1,000 bushels</i> 82,703	<i>1,000 bushels</i> 94,112	<i>1,000 bushels</i> 77,661	<i>1,000 dollars</i> 78,956	<i>1,000 dollars</i> 77,615	<i>1,000 dollars</i> 72,680	<i>Cents</i> 94	<i>Dollars</i> 89 73	U. S.
2,995 109	1,872 115	2,465	1,890	2,175	2,958	2,268	2,610	120	174 00	N J Pa.
635	880	1,251	880	980	813	616	784	80	112 00	Del
970	1,161	1,815	1,584	1,500	1,361	1,109	1,200	80	120 00	Md.
3,497	3,996	5,375	5,805	6,336	5,375	4,934	6,019	95	136 80	Va
207	276	330	220	204	528	308	286	140	143 00	W Va.
7,702	7,040	7,560	10,146	7,840	7,560	8,117	6,664	85	83 30	N C
4,594	2,860	3,760	5,300	4,214	3,760	4,240	3,582	85	73 10	S. C
7,206	5,170	9,460	10,560	10,234	7,568	7,920	8,699	85	73 10	Ga
2,323	2,465	2,800	2,668	2,464	3,500	2,268	2,834	115	101.21	Fla
106	345	315	399	360	472	559	486	135	162 00	Ohio.
103	216	330	224	232	478	302	302	130	151 00	Ind.
851	1,056	1,430	1,030	980	1,930	1,184	1,078	110	107 80	Ill.
193	327	309	270	369	618	405	572	155	190 67	Iowa.
607	950	1,120	1,344	1,155	1,456	1,613	1,213	105	110 27	Mo
421	345	516	408	260	697	449	286	110	143 00	Kans.
870	1,260	2,040	1,488	1,246	2,203	1,786	1,433	115	102 36	Ky.
1,948	3,240	6,150	4,704	3,895	4,305	3,998	3,700	95	90 24	Tenn.
6,023	4,550	6,500	7,644	6,510	5,525	6,497	5,859	90	83 70	Ala.
5,028	5,952	5,720	7,728	6,050	5,434	6,182	5,445	90	99 00	Miss.
5,237	5,760	7,110	9,702	6,660	6,399	6,791	5,661	85	76 50	La.
2,798	6,132	8,556	11,970	8,284	8,128	8,978	8,284	100	76 00	Tex
350	1,880	2,520	2,438	1,780	2,520	1,950	1,691	95	84 55	Okla
1,731	3,060	3,672	4,408	2,520	3,488	3,526	2,268	90	81 00	Ark.
851	1,008	1,164	1,080	1,152	1,280	1,242	1,267	110	105 58	Calif
-----	400	435	222	261	600	373	457	175	228 50	Other States.

## TOBACCO

<i>1,000 pounds</i>	<i>1,000 pounds</i>	<i>1,000 pounds</i>	<i>1,000 pounds</i>	<i>1,000 pounds</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>Cents per lb.</i>	<i>Dollars</i>	<i>U. S.</i>
996,049	1,376,628	1,297,889	1,211,909	1,373,501	236,702	256,882	254,322	18 5	133 01	U. S.
9,374	10,690	9,412	8,683	9,462	3,294	3,099	3,225	34 1	403 13	Mass
27,995	40,019	29,346	28,985	29,750	10,447	10,621	11,071	37 2	442 84	Conn
4,892	2,200	1,320	960	1,020	251	173	197	19 3	197 00	N Y.
56,333	57,400	43,560	46,240	49,580	4,574	6,011	6,941	14 0	187 59	Pa
18,800	24,690	26,040	26,176	21,700	6,171	6,020	3,906	18 0	126 00	Md
137,529	129,400	137,032	127,971	111,600	24,118	22,828	19,180	17 2	103 12	Va.
13,024	6,975	8,500	3,488	5,100	1,114	855	1,173	23 0	167 57	W. Va.
126,204	380,165	386,460	485,683	475,230	102,025	106,850	87,918	18 5	120.44	N C.
21,727	71,040	56,780	76,648	82,288	13,230	15,713	10,451	12 7	70 61	S C.
1,306	48,240	39,963	59,088	84,387	9,591	11,440	11,178	13 2	91 62	Ga
2,854	5,824	5,808	8,228	9,221	2,195	2,865	2,687	29.1	223 92	Fla.
81,948	50,745	37,389	24,652	33,440	3,776	4,531	6,019	18 0	143 31	Ohio.
19,164	18,291	12,995	6,384	11,234	1,261	1,403	2,247	20 0	160 50	Ind
47,984	44,000	33,350	33,170	49,025	4,602	5,315	8,824	18 0	238 49	Winn.
-----	-----	-----	-----	1,200	-----	-----	144	12 0	144 00	-----
5,457	4,075	4,750	4,400	4,400	712	968	968	22 0	242 00	Mo.
349,263	387,990	358,568	202,269	306,000	38,008	43,349	58,550	19 1	148 23	Ky
69,887	94,380	106,216	68,484	88,459	11,153	14,661	19,461	22 0	173 76	Tenn.
2,308	504	400	400	405	180	180	182	45 0	182 00	La

## No. 657.—TAME HAY: AREA, PRODUCTION, AND FARM VALUE, BY STATES

[Tons are of 2,000 pounds]

Division and State	Acres			Yield per acre			Production			Farm value, Dec 1, 1928 (preliminary)	
	1926	1927	1928 (preliminary)	1926	1927	1928 (preliminary)	1926	1927	1928 (preliminary)	Amount	Per ton
	Thousands 58,558	Thousands 60,885	Thousands 57,775	Tons 1 47	Tons 1 74	Tons 1 61	1,000 tons 86,144	1,000 tons 106,001	1,000 tons 83,031	1,000 dollars 1,148,283	Dol- lars 12 34
United States.....											
New England.....	3,550	3,501	3,465	1 37	1 37	1 46	4,499	4,779	5,064	70,279	13 88
Maine.....	1,272	1,247	1,235	1 12	1 22	1 28	1,425	1,526	1,583	18,046	11 40
New Hampshire.....	469	463	459	1 14	1 27	1 41	534	588	647	9,123	14 10
Vermont.....	926	922	914	1 58	1 53	1 62	1,461	1,407	1,480	17,168	11 60
Massachusetts.....	475	466	460	1 25	1 45	1 56	594	674	717	13,695	19 10
Rhode Island.....	45	44	43	1 29	1 34	1 56	58	59	67	1,474	22 00
Connecticut.....	363	359	354	1 17	1 46	1 61	424	525	570	10,773	18 90
Middle Atlantic.....	8,018	8,132	7,768	1 32	1 57	1 49	10,604	12,835	11,537	137,437	11 91
New York.....	4,847	4,870	4,597	1 32	1 51	1 40	6,393	7,311	6,439	72,761	11 30
New Jersey.....	250	257	247	1 56	1 79	1 83	391	461	453	6,614	14 60
Pennsylvania.....	2,916	3,075	2,924	1 31	1 65	1 59	3,820	5,063	4,645	58,062	12 50
East North Central.....	14,238	15,202	13,734	1 41	1 65	1 42	20,023	25,149	19,518	247,077	12 66
Ohio.....	2,938	3,139	2,780	1 37	1 64	1 33	4,033	5,152	3,698	43,267	11 70
Indiana.....	1,941	2,027	1,808	1 28	1 47	1 37	2,477	2,980	2,481	29,772	12 00
Illinois.....	3,078	3,556	3,064	1 18	1 49	1 32	3,621	5,286	4,045	52,180	12 90
Michigan.....	2,913	3,036	2,832	1 42	1 59	1 51	4,150	4,745	4,277	49,613	11 60
Wisconsin.....	3,368	3,444	3,270	1 70	2 03	1 53	5,742	6,986	5,017	72,245	14 40
West North Central.....	14,546	14,692	13,727	1 31	1 91	1 70	19,033	28,079	23,309	241,363	10 35
Minnesota.....	2,267	2,454	2,447	1 31	2 07	1 79	2,977	5,080	4,387	48,696	11 10
Iowa.....	3,112	3,135	2,786	1 22	1 66	1 51	3,805	5,197	4,203	54,639	13 00
Missouri.....	3,147	3,553	3,299	1 12	1 46	1 27	3,581	5,197	4,183	44,340	10 60
North Dakota.....	1,331	1,040	1,063	1 03	1 87	1 87	1,365	1,944	1,991	13,340	6 70
South Dakota.....	1,303	1,105	1,086	1 00	2 06	1 52	1,366	2,271	1,655	13,571	8 20
Nebraska.....	1,761	1,727	1,550	1 86	2 40	2 16	3,282	4,145	3,351	33,510	10 00
Kansas.....	1,565	1,678	1,496	1 73	2 53	2 37	2,707	4,245	3,539	33,267	9 40
South Atlantic.....	3,855	4,576	4,454	1 04	1 17	1 17	3,993	5,349	5,205	80,761	15 52
Delaware.....	76	80	81	1 47	1 78	1 70	112	142	138	2,263	16 40
Maryland.....	396	443	430	1 30	1 65	1 75	516	733	754	10,179	13 50
Virginia.....	979	1,077	1,063	1 01	1 37	1 37	992	1,452	1,451	22,200	15 30
West Virginia.....	784	831	814	1 32	1 52	1 45	1,036	1,279	1,182	17,375	14 70
North Carolina.....	759	806	752	90	94	98	681	761	734	12,698	17 30
South Carolina.....	257	441	434	77	80	87	199	353	376	6,956	18 50
Georgia.....	522	803	792	77	70	64	400	565	506	7,894	15 60
Florida.....	82	95	88	70	67	73	57	64	64	1,216	19 00
East South Central.....	3,481	3,776	3,629	1 23	1 26	1 23	4,273	4,745	4,463	73,284	16 42
Kentucky.....	1,156	1,318	1,263	1 32	1 42	1 31	1,525	1,871	1,644	27,126	16 50
Tennessee.....	1,396	1,352	1,310	1 27	1 30	1 36	1,766	1,762	1,750	30,052	16 90
Alabama.....	523	615	615	95	84	77	499	517	478	7,473	18 80
Mississippi.....	406	491	451	1 19	1 21	1 25	483	595	566	8,603	15 20
West South Central.....	2,000	2,116	2,135	1 34	1 29	1 29	2,673	2,736	2,631	36,298	13 54
Arkansas.....	575	643	625	1 16	1 14	1 09	667	730	683	9,835	14 40
Louisiana.....	233	278	297	1 18	1 28	1 43	276	356	424	6,106	14 40
Oklahoma.....	572	566	576	1 54	1 59	1 46	883	901	841	10,681	12 70
Texas.....	620	629	637	1 37	1 19	1 15	847	749	733	9,676	13 20
Mountain.....	5,355	5,361	5,378	2 30	2 39	2 23	12,297	12,808	11,969	135,842	11 35
Montana.....	1,309	1,274	1,294	1 58	2 12	1 98	2,063	2,706	2,558	22,766	8 90
Idaho.....	1,025	1,014	1,047	2 70	3 11	2 53	2,768	3,151	2,645	29,095	11 00
Wyoming.....	682	685	681	1 94	1 78	1 80	1,326	1,219	1,224	12,362	10 10
Colorado.....	1,210	1,225	1,207	2 33	2 17	2 07	2,820	2,658	2,497	29,215	11 70
New Mexico.....	182	196	186	2 39	2 21	2 19	435	434	407	6,878	16 90
Arizona.....	176	192	185	3 64	3 50	3 77	641	672	697	12,546	18 00
Utah.....	562	567	570	3 07	2 60	2 46	1,724	1,474	1,400	16,380	11 70
Nevada.....	209	208	208	2 49	2 38	2 60	520	494	541	6,600	12 20
Pacific.....	3,580	3,479	3,465	2 49	2 74	2 68	8,749	9,521	9,285	125,932	13 56
Washington.....	909	932	906	2 20	2 49	2 36	2,001	2,317	2,140	28,034	13 10
Oregon.....	912	898	905	1 93	2 28	2 26	1,764	2,048	2,041	23,880	11 70
California.....	1,699	1,649	1,654	2 93	3 13	3 09	4,984	5,156	5,104	74,008	14 50

Source: Bureau of Agricultural Economics, Department of Agriculture.



## No. 658.—WILD HAY: AREA, PRODUCTION, AND FARM VALUE, BY STATES

[Tons are of 2,000 pounds]

Division and State	Acres			Yield per acre			Production			Farm value Dec 1, 1928 (preliminary)	
	1926	1927	1928 (preliminary)	1926	1927	1928 (preliminary)	1926	1927	1928 (preliminary)	Amount	Per ton
	Thousands 12, 911	Thousands 14, 813	Thousands 18, 144	Tons 0 74	Tons 1 17	Tons 0 98	1,000 tons 9, 568	1,000 tons 17, 326	1,000 tons 12, 922	1,000 dollars 95, 076	Dol- lars 7 36
<b>United States</b> .....											
<b>New England</b> .....	69	69	66	.96	1 03	1 20	66	71	79	805	10 19
Maine.....	13	13	13	.94	.95	1 05	12	12	14	119	8 50
New Hampshire.....	17	17	16	.90	1 00	1 15	15	17	18	158	8 80
Vermont.....	13	13	13	1 05	1 10	1 30	14	14	17	136	8 00
Massachusetts.....	13	13	12	.95	1 00	1 25	12	13	15	194	12 90
Rhode Island.....	2	2	2	1 00	1 00	1 10	2	2	2	29	14 40
Connecticut.....	11	11	10	1 00	1 20	1 30	11	13	13	169	13 00
<b>Middle Atlantic</b> .....	104	100	99	1 21	1 26	1 23	126	126	122	1, 091	8 94
New York.....	68	68	68	1 12	1 14	1 09	76	78	74	555	7 50
New Jersey.....	16	17	16	1 55	1 50	1 65	25	26	26	312	12 00
Pennsylvania.....	20	15	15	1 25	1 45	1 45	25	22	22	224	10 20
<b>East North Central</b> .....	329	307	313	1 26	1 41	1 30	416	434	406	3, 659	9 01
Ohio.....	5	5	7	1 22	1 45	1 13	6	7	8	72	9 00
Indiana.....	21	21	20	1 15	1 25	1 15	24	26	23	207	9 00
Illinois.....	37	34	41	1 10	1 40	1 12	41	48	46	469	10 20
Michigan.....	38	42	38	1 17	1 33	1 31	44	56	50	400	8 00
Wisconsin.....	228	205	207	1 32	1 45	1 35	301	297	279	2, 511	9 00
<b>West North Central</b> .....	9, 301	10, 668	9, 342	.63	1 19	.95	5, 839	12, 657	8, 393	58, 025	6 52
Minnesota.....	1, 865	1, 884	1, 809	.80	1 50	1 20	1, 492	2, 826	2, 171	13, 894	6 40
Iowa.....	300	281	270	.84	1 27	1 16	252	357	313	3, 130	10 00
Missouri.....	130	130	143	.90	1 35	1 10	117	176	157	1, 020	6 50
North Dakota.....	1, 259	1, 360	1, 210	.65	1 25	1 12	818	1, 700	1, 355	7, 317	5 40
South Dakota.....	2, 315	3, 010	2, 107	.40	1 10	.60	926	3, 311	1, 264	8, 216	6 50
Nebraska.....	2, 530	3, 056	2, 903	.65	1 00	.87	1, 644	3, 056	2, 526	18, 692	7 40
Kansas.....	902	947	900	.71	1 30	1 23	640	1, 231	1, 107	5, 756	5 20
<b>South Atlantic</b> .....	130	122	119	.95	1 11	1 13	123	135	134	1, 652	12 33
Delaware.....	4	3	2	1 50	1 60	1 60	6	5	3	18	6 00
Maryland.....	4	3	3	1 21	1 40	1 68	5	4	5	60	12 00
Virginia.....	26	23	21	1 00	1 25	1 33	26	29	28	322	11 50
West Virginia.....	13	12	12	1 10	1 50	1 33	14	18	16	160	10 00
North Carolina.....	58	52	52	.90	1 10	1 15	52	57	60	804	13 40
South Carolina.....	8	3	6	.65	.68	.60	2	2	4	60	14 90
Georgia.....	18	22	19	.80	.78	.80	14	17	15	183	12 20
Florida.....	4	4	4	.95	.75	.85	4	3	3	45	15 00
<b>East South Central</b> .....	136	139	165	1 04	1 13	1 16	142	157	192	2, 288	11 92
Kentucky.....	23	32	58	1 25	1 40	1 40	29	45	81	940	11 60
Tennessee.....	56	50	50	1 10	1 20	1 20	62	60	60	726	12 10
Alabama.....	22	22	22	.84	.75	.75	18	16	16	230	14 40
Mississippi.....	35	35	35	.95	1 02	1 00	33	36	35	392	11 20
<b>West South Central</b> .....	931	948	860	.93	.99	.97	869	937	836	6, 898	8 25
Arkansas.....	133	146	131	1 00	1 00	.85	133	146	111	1, 099	9 90
Louisiana.....	18	18	18	1 10	1 00	1 38	20	18	25	248	9 90
Oklahoma.....	549	565	492	.80	.98	1 00	439	554	492	3, 346	6 80
Texas.....	231	219	219	1 20	1 00	.95	277	219	208	2, 205	10 60
<b>Mountain</b> .....	1, 496	2, 048	1, 764	.98	1 12	.99	1, 460	2, 287	1, 752	16, 162	9 22
Montana.....	393	365	606	.80	1 15	.90	314	995	545	4, 360	8 90
Idaho.....	101	101	101	1 20	1 60	1 20	121	162	121	1, 028	8 50
Wyoming.....	372	409	401	1 00	1 10	1 05	372	450	421	4, 126	9 80
Colorado.....	360	396	376	1 00	1 00	.90	360	396	358	3, 451	10 30
New Mexico.....	30	30	33	1 10	1 00	.90	33	30	30	390	13 00
Arizona.....	5	10	10	1 20	1 00	.50	6	10	6	68	13 50
Utah.....	75	77	77	1 25	1 30	1 30	94	100	100	1, 000	10 00
Nevada.....	160	160	160	1 00	.90	1 20	160	144	192	1, 709	8 90
<b>Pacific</b> .....	415	412	418	1 15	1 27	1 22	477	522	508	4, 498	8 85
Washington.....	30	30	31	1 40	1 75	1 50	42	52	46	400	8 70
Oregon.....	235	235	235	1 15	1 25	1 20	270	294	282	2, 566	9 10
California.....	150	147	150	1 10	1 20	1 20	165	176	180	1, 530	8 50

Source Bureau of Agricultural Economics, Department of Agriculture.

**No. 659.—ACREAGE, PRODUCTION, AND VALUE OF PRINCIPAL CROPS:**  
ESTIMATES OF THE DEPARTMENT OF AGRICULTURE

NOTE.—Tons are of 2,000 pounds For weights of the units of measurement for principal products, see Appendix, p 850 Figures for 1928 are preliminary

Yearly average or year	Area	Production	Value <sup>1</sup>	Yield per acre	Unit price <sup>1</sup>	Area	Production	Value <sup>1</sup>	Yield per acre	Unit price <sup>1</sup>
	Corn					Wheat				
	1,000 acres	1,000 bushels	1,000 dollars	Bush-els	Cents per bushel	1,000 acres	1,000 bushels	1,000 dollars	Bush-els	Cents per bushel
1866-1875	37,216	969,948	454,535	26 1	48.9	20,470	244,672	257,587	12.0	105.8
1876-1885	61,671	1,564,992	617,780	25 4	39.5	34,433	425,054	391,104	12.3	92.0
1886-1895	74,274	1,769,616	648,785	23 8	36.7	37,500	476,788	321,071	12.7	87.3
1896-1900	90,589	2,373,786	669,420	26 2	28.1	48,989	693,074	415,922	12.9	66.7
1901-1905	93,545	2,366,483	1,043,140	25 3	45.3	50,194	700,220	501,277	14 0	71.6
1906-1910	97,327	2,682,288	1,366,651	27 6	51.3	45,766	674,993	579,535	14 7	85.9
1911-1915	105,672	2,754,164	1,644,511	26 0	60.3	51,910	806,361	705,890	15 5	87.5
1916-1920	105,072	2,830,942	3,109,625	27 0	111.0	58,685	799,083	1,491,445	13 6	186.6
1921-1925	102,615	2,850,733	1,931,630	27 8	67.8	58,115	804,218	889,140	13 8	110.6
1911	105,825	2,531,488	1,565,258	23 9	61.8	49,543	621,338	543,063	12.5	87.4
1912	107,083	3,124,746	1,520,454	29 2	48.7	45,814	730,267	555,280	15.9	76.0
1913	105,820	2,446,988	1,692,092	23 1	69.1	50,184	763,380	610,122	15 2	79.9
1914	103,435	2,672,804	1,722,070	25 8	64.4	53,541	891,017	878,680	16 6	98.6
1915	106,197	2,994,793	1,722,680	28.2	57.5	60,469	1,025,801	942,303	17 0	91.9
1916	105,296	2,566,927	2,280,729	24 4	88.9	52,316	636,318	1,019,968	12 2	160.3
1917	116,730	3,065,233	3,920,228	26 3	127.9	45,089	636,655	1,278,112	14 1	300.8
1918	104,467	2,502,665	3,416,240	24 0	136.5	59,181	921,438	1,881,826	15.6	204.2
1919	97,170	2,811,302	3,780,597	28 9	134.5	75,694	967,979	2,080,056	12.8	214.9
1920	101,699	3,208,584	2,150,332	31 5	67.0	61,143	833,027	1,197,263	13.6	143.7
1921	103,740	3,068,569	1,297,213	29 6	42.3	63,696	814,905	754,834	12 8	92.6
1922	102,846	2,906,020	1,910,775	28 3	65.8	62,317	867,598	873,412	13 9	100.7
1923	104,324	3,053,557	2,217,229	29 3	72.6	59,659	797,394	736,006	13 4	92.3
1924	100,863	2,309,414	2,266,771	22 9	98.2	52,535	864,428	1,123,086	15 6	129.9
1925	101,302	2,916,106	1,966,162	28 8	67.4	52,367	676,765	958,364	12 9	141.6
1926	99,615	2,691,531	1,728,970	27 0	64.2	56,359	831,381	996,308	14 8	119.8
1927	98,393	2,763,093	1,997,759	28 1	72.3	58,784	878,374	979,813	14 9	111.5
1928	100,761	2,839,959	2,132,991	28 2	75.1	57,724	902,749	877,193	15.6	97.2
	Oats					Rye				
	1,000 acres	1,000 bushels	1,000 dollars	Bush-els	Cents per bushel	1,000 acres	1,000 bushels	1,000 dollars	Bush-els	Cents per bushel
1866-1875	9,680	272,993	102,423	28 2	37.5	1,347	18,267	14,559	13 6	79.7
1876-1885	17,143	469,856	152,594	27 4	32.5	1,892	24,625	15,540	13 0	63.7
1886-1895	27,432	717,143	207,266	26 1	29.4	2,188	27,975	15,278	12.8	54.4
1896-1900	28,319	849,004	195,462	28 9	22.8	2,074	31,272	14,142	15 1	45.2
1901-1905	30,953	951,752	308,350	30 7	32.8	2,077	33,064	19,091	15 9	57.8
1906-1910	34,741	988,734	385,820	28 4	39.7	2,182	35,617	24,723	16 3	69.5
1911-1915	38,703	1,230,499	473,133	31.7	39.2	2,494	41,399	31,903	16 5	76.6
1916-1920	42,456	1,412,602	865,991	33 2	61.3	4,927	67,762	96,485	13 9	139.9
1921-1925	42,850	1,318,021	525,747	30 8	39.9	4,900	68,018	52,182	13 9	76.7
1911	37,763	922,298	414,663	24 4	45.0	2,127	33,119	27,557	15 6	83.2
1912	37,917	1,418,337	452,469	37 4	31.9	2,117	35,664	23,636	16 8	66.3
1913	38,399	1,121,768	439,596	29 2	39.2	2,557	41,381	26,220	16 2	63.4
1914	38,442	1,141,060	499,431	29 7	43.8	2,541	42,779	37,018	16 8	86.5
1915	40,996	1,549,030	559,506	37.8	36.1	3,129	54,050	45,083	17.3	83.4
1916	41,527	1,251,837	655,928	30 1	52.4	3,213	48,862	59,676	15 2	122.1
1917	43,553	1,592,740	1,061,474	36 6	66.6	4,317	62,933	104,447	14 6	166.0
1918	44,349	1,538,124	1,090,322	34 7	70.9	6,391	91,041	138,038	14 2	151.6
1919	40,359	1,184,030	838,922	29 3	70.4	6,307	75,483	100,573	12 0	133.2
1920	42,491	1,496,281	688,311	35.2	46.0	4,409	60,490	76,693	13.7	126.8
1921	45,495	1,078,341	325,954	23.7	30.2	4,528	61,675	43,014	13 6	69.7
1922	40,790	1,215,803	478,948	29.8	39.4	6,672	103,362	70,841	15 5	68.5
1923	40,981	1,305,883	541,137	31.9	41.4	5,171	63,077	40,971	12.2	65.0
1924	42,110	1,502,529	717,189	35 7	47.7	4,156	65,520	69,742	15 8	106.4
1925	44,872	1,487,550	565,506	33 2	38.0	3,974	46,456	36,340	11 7	78.2
1926	44,177	1,246,843	496,582	28.2	39.8	3,574	40,749	33,991	11 4	83.4
1927	41,941	1,182,594	531,762	28 2	45.0	3,648	58,164	49,609	15 9	85.3
1928	41,733	1,449,531	592,674	34.7	40.9	3,444	41,766	36,067	12.1	86.4

<sup>1</sup> Farm values as of Dec 1.

No. 659.—ACREAGE, PRODUCTION, AND VALUE OF PRINCIPAL CROPS: ESTIMATES OF THE DEPARTMENT OF AGRICULTURE—Continued

Yearly average or year	Area	Production	Value <sup>1</sup>	Yield per acre	Unit price <sup>1</sup>	Area	Production	Value <sup>1</sup>	Yield per acre	Unit price <sup>1</sup>
Barley						Buckwheat				
	1,000 acres	1,000 bushels	1,000 dollars	Bushels	Cents per bushel	1,000 acres	1,000 bushels	1,000 dollars	Bushels	Cents per bushel
1866-1875----	1,186	26,992	21,382	22 6	79 2	730	13,369	9,735	18 3	72.8
1876-1885----	2,102	47,029	28,683	22 4	61 8	799	11,616	7,510	14 7	66.2
1886-1895----	3,490	79,646	37,464	22 8	48 3	879	12,854	7,031	14 7	55 0
1896-1900----	4,315	102,951	37,847	23 9	36 7	821	14,367	6,720	17 5	47.6
1901-1905----	5,520	150,063	64,829	27 2	43 4	859	15,670	9,343	18 2	59.6
1906-1910----	7,281	181,788	99,631	25 1	55 1	759	16,543	23,313	19 3	68.3
1911-1915----	7,474	197,211	111,389	26 5	59 4	808	16,514	12,127	20 4	73.9
1916-1920----	8,150	197,447	189,902	24 1	97 1	836	14,426	20,963	17 4	142.7
1921-1925----	7,498	186,029	105,566	24.8	56 7	735	14,017	12,718	19 1	90.7
1911-----	7,627	160,240	139,182	21 0	86 9	833	17,549	12,735	21 1	72.6
1912-----	7,530	223,824	112,957	29 7	50 5	841	19,249	12,720	22 9	66.1
1913-----	7,499	178,189	95,731	23 8	53 7	805	13,833	10,445	17 2	75.5
1914-----	7,565	194,953	105,903	25 8	54 3	792	16,881	12,892	21 3	76.4
1915-----	7,148	228,851	118,172	32 0	61 6	769	15,056	11,843	19.6	78.7
1916-----	7,757	182,309	160,646	23 5	88 1	828	11,662	13,147	14 1	112.7
1917-----	8,933	211,759	240,758	23 7	113 7	924	16,022	25,631	17.3	160 0
1918-----	9,740	256,225	234,942	26 3	91 7	1,027	16,905	28,142	16 5	166.5
1919-----	6,720	147,608	178,080	22 0	120 6	700	14,399	21,032	20.6	146 1
1920-----	7,600	189,332	135,083	24 9	71 3	701	13,142	16,863	18 7	128.3
1921-----	7,414	154,946	64,934	20 9	41.9	680	14,207	11,540	20 9	81.2
1922-----	7,317	182,068	95,560	24 9	52 5	764	14,564	12,889	19.1	88 5
1923-----	7,835	197,691	107,038	25 2	54 1	739	13,965	13,029	18 9	93.3
1924-----	6,925	181,575	134,590	26 2	74 1	745	13,357	13,708	17.9	102 6
1925-----	7,997	213,863	125,709	26.7	58 8	747	13,994	12,423	18 7	88 8
1926-----	7,970	184,905	106,237	23 2	57 5	694	12,676	11,183	18 3	88.2
1927-----	9,476	265,882	180,200	28 1	67 8	810	15,755	13,155	19 5	83 5
1928-----	12,539	356,868	197,128	28 5	55 2	750	13,163	11,525	17.6	87 6
Rice (rough)						Flaxseed				
1906-1910----	638	20,720	16,598	32 4	80.9	2,520	21,930	28,151	8.7	140 0
1911-1915----	749	25,266	22,370	33 8	88 4	2,186	18,615	26,120	8.5	143.3
1916-1920----	1,073	41,645	70,250	39 1	171 2	1,726	10,972	31,807	6 4	300.1
1921-1925----	922	35,708	41,551	38 7	116 4	2,156	17,887	38,410	8.3	214.7
1911-----	696	22,934	18,274	32 9	79 7	2,757	19,370	35,272	7.0	182 1
1912-----	723	25,054	23,423	34 7	93 5	2,851	28,073	32,202	9.8	114.7
1913-----	827	25,744	22,090	31 1	85.8	2,291	17,853	21,599	7.8	119 9
1914-----	694	23,649	21,849	34 1	92 4	1,645	13,749	17,318	8 4	126.0
1915-----	803	28,947	26,212	36.1	90 6	1,387	14,030	24,410	10 1	174.0
1916-----	869	40,861	36,311	47 0	88 9	1,474	14,296	35,541	9 7	248.6
1917-----	981	34,739	65,879	35 4	189 6	1,984	9,164	27,182	4 6	296 6
1918-----	1,119	38,606	74,042	34 5	191 8	1,910	13,369	45,470	7 0	340.1
1919-----	1,063	41,985	111,913	39 5	266 6	1,503	7,178	31,475	4 8	438 5
1920-----	1,336	52,066	62,036	39 0	119 1	1,757	10,752	18,999	6.1	176.7
1921-----	921	37,612	35,802	40 8	95 2	1,108	8,029	11,648	7.2	145.1
1922-----	1,055	41,405	38,562	39 2	93 1	1,113	10,375	21,941	9.3	211.5
1923-----	895	33,717	37,150	37 7	110 2	2,014	17,060	36,951	8.5	210 7
1924-----	850	32,498	45,009	38 2	138 5	3,469	31,647	71,728	9.1	227.4
1925-----	889	33,309	51,232	37.5	153 8	3,078	22,424	50,783	7.3	226.5
1926-----	1,034	41,730	45,722	40 4	109 6	2,907	19,335	37,510	6 7	194 0
1927-----	1,012	44,774	41,616	44 2	92 9	2,837	25,847	48,079	9.1	186.0
1928-----	965	41,881	37,077	43.4	88.5	2,721	19,321	38,857	7.1	201.1

<sup>1</sup> Farm values as of Dec. 1.

No. 659.—ACREAGE, PRODUCTION, AND VALUE OF PRINCIPAL CROPS: ESTIMATES OF THE DEPARTMENT OF AGRICULTURE—Continued

Yearly average or year	Area	Production	Value <sup>1</sup>	Yield per acre	Unit price <sup>1</sup>	Area	Production	Value <sup>1</sup>	Yield per acre	Unit price <sup>1</sup>
	Potatoes					Sweet potatoes				
	1,000 acres	1,000 bushels	1,000 dollars	Bush-els	Cents per bushel	1,000 acres	1,000 bushels	1,000 dollars	Bush-els	Cents per bushel
1866-1875	1,201	167,266	62,754	93 0	53 5					
1876-1885	1,938	162,228	82,085	81 2	50 6					
1886-1895	2,653	197,285	92,908	74 4	47 1					
1896-1900	2,911	237,916	96,250	81 6	41 3					
1901-1905	3,104	277,150	155,388	89 1	58 0	545	47,730	27,943	87 5	58 5
1906-1910	3,502	340,045	196,904	97 1	58 3	600	54,563	36,457	90 9	66 8
1911-1915	3,689	362,910	219,137	98 3	61 9	629	60,257	42,525	95 4	71 2
1916-1920	3,889	373,417	486,053	95 7	132 4	913	88,750	104,054	96 9	115 7
1921-1925	3,690	394,327	369,765	106 9	93 8	929	84,291	84,152	90 8	99 8
1912	3,711	420,647	212,550	113 4	50 5	583	55,479	40,264	95 2	72 6
1913	3,668	331,525	227,903	90 4	68 7	625	59,057	42,884	94 5	72 6
1914	3,711	409,921	199,460	110 5	48 7	603	56,574	41,204	93 8	73 0
1915	3,734	359,721	221,662	96 3	61 7	731	75,639	46,980	103 5	62 1
1916	3,565	286,953	419,333	80 5	146 1	774	70,955	60,141	91 7	84 8
1917	4,384	442,108	542,774	100 8	122 8	919	85,822	62,916	91 2	110 8
1918	4,295	411,860	491,827	95 9	119 3	940	87,924	118,863	93 5	135 2
1919	3,542	322,867	514,855	91 2	159 5	941	97,126	130,514	103 2	134 4
1920	3,657	403,296	461,778	110 3	114 5	992	103,925	117,834	104 8	113 4
1921	3,941	361,659	398,362	91 8	110 1	1,066	98,654	86,894	92 5	88 1
1922	4,307	453,396	268,355	105 3	58 1	1,117	109,394	84,295	97 9	77 1
1923	3,816	416,105	324,889	109 0	78 1	993	97,177	95,091	97 9	97 9
1924	3,310	419,560	262,097	126 8	62 5	688	53,912	69,444	78 4	128 8
1925	3,074	320,915	600,120	104 4	187 0	779	62,319	85,034	80 0	136 4
1926	3,120	354,458	501,186	113 6	141 4	819	82,703	78,956	101 0	95 5
1927	3,476	402,741	388,741	115 9	96 5	933	94,112	77,615	100 9	82 5
1928	3,825	462,943	250,043	121 0	54 0	810	77,661	72,680	95 9	93 6
	Cotton					Cottonseed (census statistics) <sup>2</sup>				
	1,000 acres	1,000 bales <sup>3</sup>	1,000 dollars	Lbs.	Cents per pound		1,000 short tons	1,000 dollars		Dolls. per ton <sup>4</sup>
1866-1875	8,810	3,250	243,808	176 2	9 1		2,607			
1876-1885	15,209	5,652	260,415	176 9	7 7		3,645			
1886-1895	19,421	7,637	337,592	193 3	7 1		4,859			
1896-1900	24,364	10,018	485,560	184 8	9 0		5,185	82,556		515 68
1901-1905	27,865	10,801	660,788	180 3	11 3		5,281	103,728		20 10
1906-1910	31,364	11,847	709,629	192 0	10 2		6,317	135,066		22 04
1911-1915	35,132	14,176	1,464,088	183 2	24 9		6,312	283,914		54 40
1916-1920	34,856	11,931	1,276,329	146 4	22 2		5,114	174,318		34 34
1921-1925	37,616	11,518	817,055	190 9	11 9		6,104	117,330		19 20
1912	34,283	13,703	802,708	182 0	12 2		6,305	141,350		22 40
1913	37,089	14,156	549,036	209 2	6 8		7,186	128,950		17 90
1914	36,832	16,135	631,400	170 3	11 3		4,992	167,900		33 60
1915	31,412	11,192	1,122,295	156 6	19 6		5,113	259,070		50 50
1916	34,985	11,450	1,566,198	159 7	27 7		5,040	353,550		66 08
1917	33,841	11,302	1,063,633	159 6	27 6		5,360	349,480		65 32
1918	36,008	12,041	2,034,658	161 5	35 6		5,074	340,470		67 18
1919	33,566	11,421	933,658	178 4	13 9		5,971	136,990		22 92
1920	36,878	13,440	1,160,988	141 2	23 8		3,531	104,560		29 72
1921	30,509	7,954	1,571,829	130 6	31 0		4,336	150,400		34 70
1922	33,086	9,762	1,540,884	167 2	18 2		4,502	190,050		42 22
1923	37,123	10,140	1,464,082	167 2	18 2		6,051	206,220		34 16
1924	41,360	16,104	1,269,836	154 5	19 6		7,150	220,360		30 88
1925	46,053	16,104	1,301,796	152 9	18 0		7,989	172,120		21 63
1926	47,087	17,977	1,269,836	154 5	19 6		5,759	206,960		35 93
1927	40,138	12,956	1,301,796	152 9	18 0		6,390			
1928	45,341	14,478								

<sup>1</sup> Farm value as of Dec 1    <sup>2</sup> Value based on yearly average price, statistics for 1928 are not available  
<sup>3</sup> Production, excluding linters, in bales of 500 pounds gross (Census)    <sup>4</sup> Yearly average farm price  
<sup>5</sup> Four-year average

No. 659.—ACREAGE, PRODUCTION, AND VALUE OF PRINCIPAL CROPS: ESTIMATES  
OF THE DEPARTMENT OF AGRICULTURE—Continued

Yearly average or year	Area	Production	Value <sup>1</sup>	Yield per acre	Unit price <sup>1</sup>	Area	Production	Value <sup>1</sup>	Yield per acre	Unit price <sup>1</sup>
Beans, dry, edible						Peanuts (for nuts)				
	1,000 acres	1,000 bushels	1,000 dollars	Bushels	Dollars per bushel	1,000 acres	1,000 pounds	1,000 dollars	Lbs	Cents per lb.
1916-1920----	1,314	13,317	66,093	10 4	4 82	1,413	1,043,292	67,475	845 6	6 5
1921-1925----	1,279	14,692	50,910	11 5	3 47	1,052	710,743	33,255	675 6	4 7
1916-----	1,107	10,715	54,686	9 7	5 10	1,043	919,028	41,243	881 1	4 5
1917-----	1,821	16,045	104,350	8 8	6 50	1,842	1,432,581	98,512	777 7	6 9
1918-----	1,744	17,397	91,893	10 0	5 28	1,865	1,240,102	80,271	664 9	6 5
1919-----	1,065	13,399	57,046	12 6	4 26	1,132	783,273	73,094	691 9	9 3
1920-----	852	9,225	27,282	10 8	2 96	1,181	841,474	44,256	712 5	5 3
1921-----	782	9,185	24,515	11 7	2 67	1,214	829,307	33,097	683 1	4 0
1922-----	1,086	12,877	48,133	11 9	3 74	1,005	633,114	29,613	630 0	4 7
1923-----	1,344	16,308	59,782	12 1	3 07	896	647,762	43,918	722 9	6 8
1924-----	1,576	15,164	56,741	9 6	3 74	1,187	745,059	34,259	627 7	4 6
1925-----	1,606	19,928	65,376	12 4	3 28	958	698,475	25,390	729 1	3 6
1926-----	1,677	17,707	51,876	10 6	2 93	843	631,825	28,161	749 5	4 5
1927-----	1,571	16,181	46,612	10 3	2 88	1,142	864,549	35,016	757 0	4 0
1928-----	1,577	16,598	69,294	10 5	4 17	1,180	809,060	37,548	685 6	4 6
Grain sorghums (kafirs, milo maize, feterita, etc.) <sup>6</sup>						Broomcorn				
	1,000 acres	1,000 bushels	1,000 dollars	Bushels	Cents per bushel	1,000 acres	1,000 short tons	1,000 dollars	Lbs	Dolls. per ton
1916-1920----	6,618	166,298	182,977	25 1	110 0	315	50	10,185	314 2	196.02
1921-1925----	6,311	117,073	86,873	18 6	74 2	337	53	7,121	313 7	134 87
1916-----	3,944	53,858	57,027	13 7	105 9	235	39	6,690	329 3	172 75
1917-----	5,153	61,409	99,433	11 9	161 9	345	57	16,804	332 8	292 75
1918-----	6,036	73,241	109,881	12 1	150 0	366	62	14,570	340 4	233 87
1919-----	6,441	157,805	202,094	24 5	128 1	352	53	8,254	303 0	154 57
1920-----	6,794	174,790	163,860	25 7	93 7	276	36	4,605	265 4	126 16
1921-----	6,385	147,609	57,576	23 1	39 0	222	38	2,758	344 2	72 20
1922-----	5,778	98,158	86,517	17 0	88 1	275	37	8,185	271 3	219 46
1923-----	6,661	116,109	110,258	17 4	95 0	536	81	12,989	302 8	160 06
1924-----	6,089	117,087	99,765	19 2	85 2	436	78	7,454	356 9	95 81
1925-----	6,640	106,434	80,251	16 0	75 4	214	30	4,219	275 7	143 02
1926-----	6,690	137,515	74,065	20 6	53 9	306	54	4,285	355 6	78 77
1927-----	6,723	137,358	84,614	20 4	61 6	230	39	4,212	335 6	109 12
1928-----	6,497	142,533	88,471	21 9	62 1	252	46	4,850	361 2	106 59
Clover seed (red and alsike)						Hops				
	1,000 acres	1,000 bushels	1,000 dollars	Bushels	Dollars per bushel	1,000 acres	1,000 pounds	1,000 dollars	Lbs	Cents per lb.
1916-1920----	921	1,564	24,280	1 7	16 10	30	32,143	10,326	1,076	35 6
1921-1925----	890	1,342	15,471	1 5	11 53	22	26,616	4,456	1,232	15 7
1916-----	939	1,708	15,661	1 8	9 18	44	50,595	6,073	1,152	12 0
1917-----	821	1,488	19,107	1 8	12 84	30	29,388	9,795	983	33 3
1918-----	820	1,197	23,705	1 5	19 80	26	21,481	4,150	829	19 3
1919-----	942	1,484	39,700	1 6	26 75	21	24,970	19,376	1,189	77 6
1920-----	1,082	1,944	23,227	1 8	11 95	28	34,280	12,236	1,224	35 7
1921-----	889	1,588	16,529	1 7	10 75	27	29,340	7,080	1,087	24 1
1922-----	1,170	1,955	18,332	1 7	9 88	23	27,744	2,383	1,186	8 6
1923-----	775	1,228	13,218	1 6	10 76	18	19,751	3,722	1,071	18 5
1924-----	809	927	13,455	1 2	14 51	20	27,670	2,865	1,360	10 3
1925-----	807	1,062	15,819	1 3	14 90	20	28,573	6,232	1,460	21 8
1926-----	530	728	12,895	1 4	17 71	21	31,522	7,296	1,516	23 1
1927-----	1,214	1,727	26,299	1 4	15 22	25	30,658	7,024	1,246	22 9
1928-----	713	1,106	18,038	1 6	16 81	26	32,742	6,328	1,254	19 3

<sup>1</sup> Farm values as of Dec. 1.<sup>6</sup> Grain sorghums for grain, 1916-1918, for all purposes thereafter.<sup>7</sup> Average for 1919 and 1920.

## No. 659.—ACREAGE, PRODUCTION, AND VALUE OF PRINCIPAL CROPS: ESTIMATES OF THE DEPARTMENT OF AGRICULTURE—Continued

Yearly average or year	Area	Production	Value <sup>1</sup>	Yield per acre	Unit price <sup>1</sup>	Area	Production	Value <sup>1</sup>	Yield per acre	Unit price <sup>1</sup>	
	Hay (tame)					Tobacco					
	1,000 acres	1,000 tons	1,000 dollars	Short tons	Dollars per ton	1,000 acres	1,000 pounds	1,000 dollars	Lbs.	Cents per lb.	
1866-1875	20, 418	24, 929	286, 821	1. 22	11. 51						
1876-1885	31, 124	38, 723	352, 577	1. 24	9. 11						
1886-1895	40, 127	47, 401	420, 673	1. 18	8. 87						
1896-1900	42, 126	58, 142	453, 405	1. 38	7. 86						
1901-1905	43, 813	66, 287	606, 797	1. 51	9. 19	938	750, 049	55, 653	800	7. 5	
1906-1910	50, 048	72, 161	777, 730	1. 44	10. 81	1, 031	851, 433	84, 458	826	10. 0	
1911-1915	49, 395	69, 543	826, 282	1. 41	12. 05	1, 210	983, 723	101, 889	813	10. 4	
1916-1920	56, 334	85, 075	1, 456, 902	1. 51	17. 26	1, 698	1, 377, 866	355, 786	812	25. 4	
1921-1925	59, 743	90, 022	1, 197, 891	1. 51	13. 31	1, 692	1, 291, 922	262, 597	763	20. 3	
1915	51, 108	85, 920	913, 644	1. 68	10. 63	1, 370	1, 062, 237	96, 281	775	9. 1	
1916	55, 721	91, 192	1, 022, 390	1. 64	11. 22	1, 413	1, 153, 278	169, 672	816	14. 7	
1917	55, 203	83, 308	1, 423, 766	1. 51	17. 09	1, 518	1, 249, 276	301, 449	823	24. 0	
1918	55, 755	76, 660	1, 543, 494	1. 37	20. 13	1, 647	1, 439, 071	402, 264	874	28. 0	
1919	56, 888	86, 997	1, 744, 547	1. 53	20. 05	1, 951	1, 465, 481	570, 868	751	39. 0	
1920	58, 101	89, 785	1, 585, 355	1. 55	17. 66	1, 960	1, 582, 225	335, 675	807	21. 2	
1921	58, 769	82, 458	998, 069	1. 40	12. 10	1, 427	1, 069, 693	212, 728	750	19. 9	
1922	61, 159	95, 748	1, 202, 063	1. 57	12. 55	1, 695	1, 246, 837	229, 248	736	23. 2	
1923	59, 868	89, 250	1, 261, 486	1. 49	14. 13	1, 877	1, 515, 110	301, 096	807	19. 9	
1924	60, 907	97, 224	1, 337, 733	1. 60	13. 76	1, 706	1, 251, 343	259, 139	734	20. 7	
1925	58, 013	85, 431	1, 190, 103	1. 47	13. 93	1, 757	1, 376, 628	250, 774	783	18. 2	
1926	58, 558	86, 144	1, 214, 372	1. 47	14. 10	1, 656	1, 297, 839	236, 702	784	18. 2	
1927	60, 885	106, 001	1, 202, 953	1. 74	11. 35	1, 585	1, 211, 909	256, 882	765	21. 2	
1928	57, 775	93, 031	1, 148, 283	1. 61	12. 34	1, 912	1, 373, 501	274, 949	718	20. 0	
Cranberries						Oranges <sup>10</sup>					
	1,000 acres	1,000 barrels <sup>11</sup>	1,000 dollars	Barrels <sup>11</sup>	Dollars per barrel		1,000 boxes	1,000 dollars		Dollars per box	
1916-1920	24	414	3, 980	17. 1	9. 80		22, 177	59, 445		2. 68	
1921-1925	27	549	5, 749	20. 5	10. 46		30, 057	70, 604		2. 35	
1916	26	471	3, 449	18. 0	7. 32		24, 433	61, 463		2. 52	
1917	18	249	2, 550	13. 7	10. 24		10, 593	27, 556		2. 60	
1918	25	352	3, 791	13. 9	10. 77		24, 200	84, 480		3. 49	
1919	25	549	4, 597	22. 0	8. 37		22, 265	59, 479		2. 67	
1920	25	449	5, 514	18. 0	12. 28		29, 396	64, 245		2. 19	
1921	25	384	6, 526	15. 4	16. 99		19, 940	49, 992		2. 51	
1922	25	560	5, 702	22. 4	10. 18		30, 306	63, 672		2. 10	
1923	28	662	4, 664	23. 3	7. 15		37, 037	65, 689		1. 77	
1924	28	582	5, 485	20. 8	9. 42		29, 700	79, 915		2. 69	
1925	28	569	6, 370	20. 3	11. 20		33, 300	93, 753		2. 82	
1926	28	744	5, 623	26. 1	7. 56		38, 867	114, 293		2. 94	
1927	28	496	6, 089	17. 4	12. 28		31, 200	124, 800		4. 00	
1928	29	531	7, 743	18. 6	14. 53		46, 000	139, 450		3. 03	
Onions (commercial crop)						Cabbage (commercial crop)					
	1,000 acres	1,000 bushels	1,000 dollars	Bushels	Cents per bushel <sup>12</sup>		1,000 acres	1,000 short tons	1,000 dollars	Short tons	Dollars per ton <sup>12</sup>
1920	65	21, 343	17, 386	329	81	124	1, 105	19, 784	8. 9	17. 90	
1921	57	14, 165	18, 587	248	131	105	687	16, 903	6. 6	24. 60	
1922	63	18, 763	15, 876	296	85	134	1, 089	13, 288	8. 1	12. 20	
1923	62	17, 306	23, 343	279	135	105	806	17, 883	7. 7	22. 19	
1924	65	19, 190	16, 419	295	86	119	1, 068	17, 688	9. 0	16. 55	
1925	65	19, 662	21, 290	301	108	120	947	16, 787	7. 9	17. 72	
1926	74	21, 119	15, 895	285	75	129	1, 036	18, 489	8. 0	17. 84	
1927	76	23, 595	18, 751	308	80	144	1, 203	19, 211	8. 4	15. 97	
1928	77	19, 025	22, 574	246	119	137	977	23, 488	7. 1	24. 04	

<sup>1</sup> Farm values as of Dec. 1<sup>2</sup> Value 1922 to 1927 based on season's average price, for 1928, on season's average to Jan. 31, 1929.<sup>3</sup> Price for season<sup>10</sup> Figures cover California (crop beginning Nov. 1 of year specified in stub) and Florida (crop year beginning Sept. 1), data including tangerines. Florida figures for 1919, 1920, and 1921 represent commercial shipments.<sup>12</sup> Of approximately 100 pounds.

## No. 660.—MINOR CROPS: AREA, PRODUCTION, AND FARM VALUE, BY STATES

NOTE—Totals for grain sorghum, beans, and broomcorn are for principal producing States only, including for beans a few States not shown separately. Farm values are for the most part as of Dec. 1

Crop and State	Acres				Yield per acre				Production				Average farm price, 1928 <sup>1</sup>
	1925	1926	1927	1928 <sup>1</sup>	1925	1926	1927	1928 <sup>1</sup>	1925	1926	1927	1928 <sup>1</sup>	
	Thousands	Thousands	Thousands	Thousands	Bushels	Bushels	Bushels	Bushels	1,000 bushels	1,000 bushels	1,000 bushels	1,000 bushels	Cents per bush
<b>Flaxseed, total</b>	3, 078	2, 907	2, 837	2, 721	7 3	6 7	9 1	7 1	22, 424	18, 335	25, 847	18, 321	201
Wisconsin	11	11	10	9	13 8	12 0	13 2	13 5	152	132	132	122	199
Minnesota	740	814	757	726	10 0	9 4	9 7	7 6	7, 400	7, 652	7, 343	5, 118	205
Iowa	10	15	19	19	10 5	11 6	12 0	10 4	105	174	228	198	198
North Dakota	1, 461	1, 350	1, 242	1, 143	6 5	5 5	8 2	7 1	9, 496	7, 590	10, 184	8, 115	201
South Dakota	559	475	594	588	6 8	5 8	10 0	5 8	3, 801	2, 755	5, 940	3, 410	201
Nebraska	6	7	7	8	9 0	8 7	10 0	8 0	54	61	70	64	190
Kansas	45	38	31	25	6 8	6 9	5 5	6 9	306	262	170	172	185
Montana	244	165	170	196	4 5	4 2	10 2	8 5	1, 098	693	1, 734	1, 666	192
Other States	2	2	2	2	6 0	2 8 0	2 6 5	2 8 0	12	16	46	56	190
<b>Grain sorghums,<sup>3</sup> total</b>	6, 640	6, 690	6, 723	6, 497	16 0	20 6	20 4	21 9	106, 434	137, 515	137, 358	142, 533	62
Missouri	94	94	113	99	15 0	18 0	24 0	23 5	1, 410	1, 692	2, 712	2, 326	80
Nebraska	20	22	30	24	15 0	10 6	23 0	20 2	300	233	705	485	85
Kansas	1, 456	1, 345	1, 547	1, 284	16 0	15 0	21 0	22 3	23, 296	20, 175	32, 487	28, 633	61
Oklahoma	1, 745	1, 817	1, 744	1, 709	12 5	19 0	20 0	18 0	21, 812	34, 523	34, 880	30, 762	62
Texas	2, 798	2, 854	2, 654	2, 760	18 0	25 0	21 0	25 0	50, 364	71, 350	55, 734	69, 000	60
Colorado	246	227	284	256	11 0	5 0	10 0	10 0	2, 706	1, 135	2, 840	2, 560	60
New Mexico	153	195	171	188	18 0	21 0	14 0	18 0	2, 754	4, 095	2, 394	3, 384	60
Arizona	40	40	50	52	20 0	31 0	31 0	29 0	800	1, 240	1, 550	1, 508	80
California	88	96	130	125	34 0	32 0	31 2	31 0	2, 992	3, 072	4, 056	3, 875	90
<b>Beans, dry, total</b>	1 606	1, 677	1, 571	1, 577	12 4	10 6	10 3	10 5	19, 928	17, 707	16, 181	16, 598	417
New York	135	97	75	80	10 8	11 8	13 0	14 5	1, 458	1, 145	975	1, 160	470
Michigan	639	552	566	538	13 5	12 0	8 5	11 0	8, 626	6, 624	4, 811	5, 918	445
Wisconsin	12	9	6	6	11 0	7 5	6 7	9 0	132	68	40	54	390
Montana	37	43	32	43	12 5	10 0	20 0	14 5	462	430	640	624	385
Idaho	72	54	72	82	22 0	18 5	23 7	18 0	1, 584	999	1, 706	1, 476	360
Colorado	320	378	281	309	7 0	3 6	5 5	4 5	2, 240	1, 361	1, 546	1, 390	340
New Mexico	114	195	195	214	3 5	4 3	5 0	4 0	399	838	975	856	315
California	240	305	296	250	19 0	18 8	16 3	17 7	4, 560	5, 734	4, 825	4, 425	440
					Lbs	Lbs	Lbs	Lbs	Tons	Tons	Tons	Tons	Dolls. per ton
<b>Broomcorn, total</b>	214	306	230	252	276	356	336	361	28, 500	54, 400	38, 600	45, 500	107
Illinois	30	40	28	24	560	420	380	440	8, 400	8, 400	5, 300	5, 300	145
Missouri	4	3	3	4	322	250	400	480	600	600	600	600	90
Kansas	22	31	27	38	286	327	375	420	3, 100	5, 100	5, 100	8, 000	96
Oklahoma	108	168	112	114	305	375	349	351	11, 100	29, 600	19, 500	20, 000	111
Texas	11	15	10	9	410	360	350	350	3, 700	3, 100	1, 300	1, 600	100
Colorado	15	30	28	36	250	225	315	340	1, 900	3, 400	4, 400	6, 100	85
New Mexico	24	29	22	27	225	300	220	270	2, 700	4, 400	2, 400	3, 600	90
									1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	Cents per lb
<b>Peanuts,<sup>4</sup> total</b>	958	848	1, 142	1, 180	729	750	757	688	698, 475	631, 825	864, 549	809, 030	4 6
Virginia	138	138	152	152	1, 040	990	810	910	143, 520	136, 620	123, 120	138, 320	4 7
North Carolina	185	180	211	195	1, 150	1, 030	954	950	212, 750	185, 400	201, 294	185, 250	4 9
South Carolina	11	8	11	10	430	675	775	690	4, 730	5, 400	8, 525	6, 900	4 2
Georgia	278	211	304	350	500	525	725	540	139, 000	110, 775	220, 400	189, 000	4 4
Florida	41	39	44	44	600	680	640	575	24, 600	26, 520	28, 160	25, 300	4 2
Tennessee	20	20	20	18	815	900	850	800	16, 300	18, 000	17, 000	14, 400	4 7
Alabama	180	140	230	210	560	570	680	560	100, 800	79, 800	156, 400	117, 600	3 9
Mississippi	14	8	9	10	595	650	725	500	8, 330	5, 200	6, 525	5, 000	6 5
Arkansas	10	10	11	12	496	675	800	720	4, 960	6, 750	8, 800	8, 640	6 4
Louisiana	9	10	13	12	640	552	625	450	5, 760	5, 520	8, 125	5, 400	6 6
Oklahoma	7	8	20	47	700	800	800	750	4, 900	6, 400	16, 000	35, 250	5 4
Texas	65	71	117	120	505	640	600	650	32, 825	45, 440	70, 200	78, 000	5 0

<sup>1</sup> Preliminary<sup>2</sup> One State only<sup>3</sup> For all purposes.<sup>4</sup> For nuts

Source Bureau of Agricultural Economics, Department of Agriculture

## No. 651.—ORCHARD CROPS: PRODUCTION, TOTAL AND IN LEADING STATES

[In thousands of bushels]

State	1909	1919	1926	1927	1928	State	1909	1919	1926	1927	1928
APPLES						PEACHES— continued					
U. S.-----	145, 412	136, 561	246, 609	123, 693	184, 920	Ohio-----	1, 036	618	2, 120	1, 326	1, 742
Me-----	3, 036	4, 829	2, 260	2, 236	1, 400	Ind-----	1, 174	82	900	242	605
N. H-----	1, 108	1, 364	1, 240	1, 100	1, 000	Ill-----	1, 223	450	2, 660	1, 122	1, 638
Vt-----	1, 460	960	800	990	560	Mich-----	1, 687	448	1, 564	578	1, 156
Mass-----	2, 550	3, 187	4, 100	2, 520	2, 700	Mo-----	1, 485	1, 263	1, 722	340	655
Conn-----	1, 541	1, 395	1, 900	1, 045	1, 500	Ky-----	1, 623	460	1, 110	180	1, 035
N. Y-----	25, 409	14, 350	40, 375	13, 600	21, 900	Tenn-----	1, 579	1, 285	1, 860	638	2, 190
N. J-----	1, 407	1, 666	4, 310	2, 697	3, 290	Ala-----	1, 417	1, 083	1, 159	540	1, 350
Pa-----	11, 048	5, 513	17, 000	6, 300	8, 460	Miss-----	1, 157	776	551	279	635
Del-----	183	606	2, 376	1, 150	1, 520	Tex-----	730	4, 621	2, 310	800	1, 612
Md-----	1, 823	1, 519	3, 500	1, 700	2, 190	Okl-----	358	2, 925	180	760	480
Va-----	6, 104	8, 943	19, 902	6, 600	16, 100	Ark-----	1, 902	3, 341	2, 400	1, 628	3, 000
W. Va-----	4, 225	4, 189	10, 875	5, 000	8, 750	Colo-----	692	721	976	892	600
N. C-----	4, 776	1, 938	5, 986	1, 825	5, 040	Utah-----	143	884	550	561	612
Ga-----	896	417	1, 827	395	1, 400	Wash-----	84	1, 545	1, 222	250	1, 470
Ohio-----	4, 664	2, 976	11, 900	5, 600	5, 880	Oreg-----	179	504	384	160	292
Ind-----	2, 759	926	4, 100	1, 249	2, 150	Calif-----	9, 267	5, 969	22, 542	20, 500	25, 752
Ill-----	3, 093	4, 673	9, 000	4, 450	7, 520	Other States--	1, 094	2, 086	2, 277	1, 464	1, 550
Mich-----	12, 332	5, 843	9, 045	4, 288	5, 400	PEARS					
Wis-----	2, 232	1, 306	2, 158	1, 200	2, 160	U. S.-----	8, 841	14, 204	25, 249	18, 373	23, 783
Minn-----	1, 044	1, 028	1, 263	854	1, 230	N. Y-----	1, 343	1, 830	2, 088	1, 872	1, 800
Iowa-----	6, 747	1, 810	3, 652	1, 720	2, 740	N. J-----	463	402	645	420	502
Mo-----	9, 259	5, 132	5, 015	2, 104	3, 380	Pa-----	379	421	748	400	620
Nebr-----	3, 321	907	700	850	470	Del-----	105	98	388	128	108
Kans-----	1, 356	1, 749	1, 428	1, 925	820	Md-----	367	287	394	193	193
Ky-----	7, 368	1, 281	6, 408	720	5, 700	Va-----	74	288	410	130	230
Tenn-----	4, 640	1, 259	5, 360	1, 152	3, 790	N. C-----	84	112	270	100	284
Ala-----	888	577	1, 328	328	885	S. C-----	66	99	133	68	133
Okl-----	742	1, 597	770	193	350	Ga-----	150	178	257	104	245
Ark-----	2, 296	7, 164	3, 450	1, 015	2, 200	Ohio-----	375	157	430	250	395
Colo-----	3, 559	3, 418	3, 444	2, 592	3, 020	Ind-----	375	109	328	140	288
N. Mex-----	417	939	1, 147	456	675	Ill-----	249	375	818	312	540
Utah-----	350	790	817	660	880	Mich-----	666	405	889	702	819
Idaho-----	660	3, 646	4, 200	6, 000	5, 000	Mo-----	143	431	473	270	171
Wash-----	2, 672	21, 569	34, 030	25, 343	33, 500	Kans-----	19	221	186	258	51
Oreg-----	1, 931	6, 921	8, 036	4, 320	6, 950	Ky-----	252	55	144	34	116
Calif-----	4, 935	7, 842	10, 350	7, 458	12, 282	Tenn-----	84	115	266	125	255
Other States--	1, 978	2, 360	2, 557	1, 558	2, 128	Ala-----	100	163	211	83	234
PEACHES						Miss-----	101	121	189	120	194
U. S.-----	35, 470	50, 886	169, 865	145, 483	168, 374	Tex-----	111	637	580	345	390
N. Y-----	1, 736	1, 262	2, 300	1, 140	2, 400	Okl-----	7	250	81	130	72
N. J-----	441	1, 653	3, 000	2, 304	1, 625	Ark-----	38	124	116	70	102
Pa-----	1, 024	1, 100	2, 498	947	1, 867	Colo-----	133	269	564	480	185
Md-----	325	564	700	352	465	Wash-----	311	1, 729	3, 220	1, 670	3, 500
Va-----	243	682	1, 176	400	880	Oreg-----	375	761	2, 100	1, 900	2, 700
W. Va-----	329	706	1, 000	202	810	Calif-----	1, 928	3, 953	8, 625	7, 542	9, 126
N. C-----	1, 344	479	2, 250	1, 300	2, 590	Other States--	598	615	696	527	580
S. C-----	643	390	1, 054	615	1, 363						
Ga-----	2, 555	4, 789	9, 400	5, 943	10, 000						

<sup>1</sup> The production of peaches includes some estimated quantities not harvested or not utilized, as follows: 1926, 1,462,000 bushels in Georgia and Northern States, 1927, 2,708,000 bushels in California, 1928, 2,917,000 bushels in California and 1,000,000 in Georgia.

Source: 1909 and 1919, enumerations of Bureau of the Census, 1926, 1927, and 1928 estimates of Department of Agriculture.



## No. 662.—ORCHARD CROPS: UNITED STATES PRODUCTION

(In thousands of bushels)

Yearly average or year	Apples	Peaches	Pears	Year	Apples	Peaches	Pears
1891-1895.....	157,693	-----	-----	1910 (census).....	136,561	50,686	14,204
1896-1900.....	179,143	-----	-----	1921.....	99,002	32,602	11,297
1901-1905.....	182,672	38,166	-----	1922.....	202,702	55,852	20,705
1906-1910.....	154,454	39,684	-----	1923.....	202,842	45,382	17,845
1911-1915.....	215,572	49,027	11,341	1924.....	171,725	53,848	18,866
1916-1920.....	179,208	43,632	14,066	1925.....	172,389	46,562	20,720
1921-1925.....	169,732	46,849	17,887	1926.....	246,609	109,865	25,249
1926 (census).....	175,398	15,433	6,625	1927.....	123,693	145,463	18,373
1929 (census).....	145,412	35,470	8,841	1928.....	184,920	68,374	23,788

<sup>1</sup> Includes some estimated quantities not harvested or not utilized See footnote Table 661

## No. 663.—ORCHARD CROPS: FARM PRICES PER BUSHEL

Division and State	Apples, Dec. 1					Peaches <sup>1</sup>					Pears <sup>1</sup>		
	1910	1925	1926	1927	1928	1910	1925	1926	1927	1928	1926	1927	1928
United States.....	\$0 90	\$1.26	\$0 75	\$1.39	\$1 00	\$1 08	\$1 38	\$1.00	\$1 18	\$0 89	\$0 89	\$1 32	\$1.02
New England:													
Maine.....	.80	.91	.85	1 00	1 00	-----	-----	-----	-----	-----	1 50	1 70	1.50
New Hampshire.....	.80	1 20	.90	1 30	1 10	2 00	1.50	2 20	2 40	-----	1 65	1 70	1.70
Vermont.....	.92	1 65	1 20	1 50	1 50	-----	-----	-----	-----	-----	2 00	2 15	2.10
Massachusetts.....	.90	1 50	.90	1 40	1 25	2 50	1.80	2 10	2 30	1 80	1 80	1 75	1.70
Rhode Island.....	.89	1 70	1 00	1 80	1 30	3 00	1.70	2 10	2 30	1 60	1 80	1 70	1.80
Connecticut.....	.80	1 65	1.00	1 70	1 30	2 80	1.70	2 20	2 10	1 90	2 00	2 00	1.60
Middle Atlantic:													
New York.....	1 00	1 12	.55	1 45	1 10	1 37	1 90	.90	1 90	1 45	1 25	1 50	1 45
New Jersey.....	.78	1 40	.70	1 45	1 10	1 28	1 60	.70	1 50	1 35	.65	1 00	1.00
Pennsylvania.....	.75	1 46	.80	1 40	1 15	1 37	2 40	1 00	2 00	1 55	1 15	1 50	1.20
South Atlantic:													
Delaware.....	-----	1 30	.50	1 60	1 10	-----	1 55	.85	1 10	1 20	40	60	.60
Maryland.....	.65	1 15	.50	1 25	90	.91	1 85	.75	1 50	1 30	.55	90	.90
Virginia.....	.80	1 12	.55	1 35	85	99	1 90	1 00	1 60	1 40	.80	1 15	1.05
West Virginia.....	.78	1 32	.70	1 60	90	1 12	2 20	1 25	2 10	1 50	1 15	1 65	1 25
North Carolina.....	.98	1 33	.85	1 65	.90	.85	1 60	90	1 70	1 15	1 15	1 35	1.10
South Carolina.....	1.00	1 70	1.40	1 75	1 25	1 02	1 35	1 00	1 50	1 10	1 20	1 30	1.10
Georgia.....	1 05	1 55	.95	1 70	1 10	1 02	1 40	.80	1 35	90	1 05	1 35	1 00
Florida.....	-----	-----	-----	-----	-----	1 00	1 65	1 60	1 75	1 35	1 25	1 15	.95
East North Central:													
Ohio.....	.93	1 43	.90	1 50	1 30	1 60	2 15	1 25	1 95	1 55	.85	1 25	.90
Indiana.....	.90	1 45	.85	1 80	1 30	1 37	2 30	1 60	2 35	1 60	.65	1 05	.75
Illinois.....	1 15	1 40	.95	1 75	1 30	1 65	2 50	1 25	2 05	1 40	.75	1 10	.85
Michigan.....	1 02	1 00	.65	1 50	1 30	1 39	2 20	1 00	2 10	1 55	.80	1 15	.95
Wisconsin.....	1.12	1 30	1 00	1 70	1 10	-----	-----	-----	-----	-----	1 30	-----	-----
West North Central:													
Minnesota.....	1 62	1 65	1 20	1 40	1 00	-----	-----	-----	-----	-----	-----	-----	-----
Iowa.....	1 30	1 70	1 30	1 95	1 50	2 17	2 50	1 60	1 95	1 50	1 20	1 50	1 20
Missouri.....	.85	1 30	1 05	1 80	1 25	1 08	1 80	1 25	1 90	1 55	.80	1 15	1 15
South Dakota.....	1 50	2 00	1 50	1 60	1 30	-----	-----	-----	-----	-----	-----	-----	-----
Nebraska.....	.98	1 95	1 50	1 40	1 40	1 33	2 35	1 50	1 60	2 00	1 60	1 60	1 90
Kansas.....	.78	1 60	1 25	1 45	1 40	1 05	1 85	1 70	1 75	1 90	1 25	1 10	1.40
East South Central:													
Kentucky.....	1 00	1 65	.90	1 80	1 00	1.21	1 75	1 30	1 90	1 25	.95	1 45	1 10
Tennessee.....	.92	1 60	.85	1 80	1 10	.92	1 55	1 05	1 70	1 10	1 05	1 45	1 05
Alabama.....	.90	1 50	1 10	1 85	1 45	.85	1 60	1 10	1 50	1 10	.90	1 30	1 10
Mississippi.....	1 25	1 60	1 25	1 65	1 45	.98	1 55	1 40	1 65	1 45	1 15	1 10	1 10
West South Central:													
Louisiana.....	-----	2 00	1 00	1 50	1 50	1 00	2 00	1 50	1 80	1 60	1 30	1 40	1 35
Texas.....	1 30	1 60	1 25	1 10	1 55	1 06	1 50	1 10	1 00	1 30	.90	1 25	1 25
Oklahoma.....	1 07	1 85	1 05	1 60	1 35	.95	1 33	1 30	1 30	1 30	1 40	1 30	1 30
Arkansas.....	1 05	.95	.75	1 55	1.20	1 00	1 50	1 05	1 40	1 20	1 25	1 30	1 20
Mountain:													
Montana.....	1 20	1 75	1 20	1 30	90	-----	-----	-----	-----	-----	-----	-----	-----
Wyoming.....	-----	2 00	1 25	1 50	1 35	-----	-----	-----	-----	-----	-----	-----	-----
Colorado.....	1.15	1 10	.70	1 10	.65	1 80	1 90	1 10	1 20	1 20	.65	1 40	1 05
New Mexico.....	1 40	1 50	.90	1 80	1 25	1 28	1 75	1 80	2 20	1 95	1.50	1 70	1.55
Arizona.....	1 91	2 20	1.60	1 90	1 90	-----	1 70	1 70	2 30	2 00	2.50	2 50	2 50
Utah.....	1 30	.90	.80	1 10	.80	1 40	2 00	.90	1 20	.95	1.10	1 70	1 40
Nevada.....	1 45	1 50	1.60	1 85	1 50	-----	2 25	1 50	2 30	2 00	2.00	2 50	2 50
Idaho.....	.99	1 05	.70	1 10	.75	-----	1 90	1 00	1 60	1.05	1 50	1 60	1 35
Pacific:													
Washington.....	.80	1 30	.75	1 30	.90	.90	1.85	.90	1 75	1 00	.80	1 35	1 05
Oregon.....	1 00	1 25	.70	1 10	.90	1 37	1 80	1 20	1 60	1 40	.85	1 40	1 00
California.....	.82	1 15	.40	.90	.50	1.03	.86	.94	.60	.55	.84	1.30	.90

<sup>1</sup> Seasonal

Source of Tables 662 and 663 Bureau of Agricultural Economics, Department of Agriculture.

**No. 664.—SUGAR PRODUCTION: CONTINENTAL UNITED STATES AND CERTAIN OUTLYING AREAS, AND WORLD TOTAL**  
 [In thousands of short tons of 2,000 pounds]

Yearly average, or year ending June 30—	Continental United States and outlying areas	Continental United States			Porto Rico <sup>1</sup>	Hawaii <sup>2</sup>	Philippine Islands <sup>3</sup>	World total	Per cent of world total in—	
		Total	Beet (chiefly refined)	Cane (chiefly raw)					Continental United States	U. S. and outlying areas
1871-1875.....	281	72	( <sup>4</sup> )	72	95	<sup>5</sup> 13	111	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )
1876-1880.....	347	96	( <sup>4</sup> )	96	78	20	152	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )
1881-1885.....	476	131	1	130	87	64	195	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )
1886-1890.....	542	153	1	152	73	119	196	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )
1891-1895.....	759	285	14	271	63	145	266	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )
1896-1900.....	812	327	48	279	56	256	174	10,844	3 0	7 5
1901-1905.....	1,141	542	194	348	115	389	94	13,321	4 1	8 6
1906-1910.....	1,685	801	440	361	255	489	141	15,784	5 1	10 7
1911-1915.....	2,202	937	552	385	363	593	309	19,796	4 7	11 1
1916-1920.....	2,517	1,009	739	220	466	594	447	18,910	5 3	13 3
1921-1925.....	2,846	1,162	951	211	477	622	585	22,101	5 3	12 9
1922.....	2,882	1,348	1,020	328	408	592	533	20,577	6 6	14 0
1923.....	2,362	971	675	296	379	537	475	20,861	4 7	11 3
1924.....	2,713	1,046	881	165	448	691	529	22,333	4 6	11 9
1925.....	3,387	1,178	1,090	<sup>7</sup> 85	660	769	780	26,624	4 4	12 7
1926.....	3,050	1,052	913	<sup>7</sup> 139	603	787	607	27,834	3 8	11 0
1927.....	3,151	944	897	<sup>7</sup> 47	629	811	<sup>8</sup> 767	26,531	3 6	11 9
1928.....	3,519	1,164	1,093	<sup>7</sup> 71	749	904	<sup>8</sup> 702	28,333	4 1	12 4
1929 (preliminary).....	3,459	1,193	1,061	<sup>7</sup> 132	596	<sup>9</sup> 930	<sup>8</sup> 740	30,237	3 9	11 4

<sup>1</sup> For 1900 to 1906, shipments to the United States. <sup>2</sup> Statistics for 1874 to 1880 represent exports.

<sup>3</sup> Exports 1871 to 1911, production 1912 and subsequently. <sup>4</sup> Less than 500. <sup>5</sup> One year only.

<sup>6</sup> Not available. <sup>7</sup> Louisiana only. <sup>8</sup> Willet and Gray's estimate. <sup>9</sup> Unofficial.

Source: Bureau of Agricultural Economics, Department of Agriculture.

**No. 665.—SUGAR: PRODUCTION, TRADE, AND SUPPLY AVAILABLE FOR CONSUMPTION, CONTINENTAL UNITED STATES**

Yearly average or year ending June 30—	Production <sup>1</sup>	Brought in from insular areas <sup>2</sup>	Imports as sugar <sup>3,4</sup>	Exports as sugar <sup>4,5</sup>	Exports in other forms <sup>6</sup>	Available for con- sumption <sup>7</sup>	
						Total	Per capita
						In terms of raw sugar	
	Short tons	Short tons	Short tons	Short tons	Short tons	Short tons	Pounds
1871-1875 .....	72,508	—	777,685	5,269	( <sup>8</sup> )	844,924	40 7
1876-1880 .....	96,444	—	830,375	23,820	( <sup>8</sup> )	902,999	38 1
1881-1885 .....	131,073	—	1,151,724	39,347	( <sup>8</sup> )	1,243,449	46 5
1886-1890 .....	152,879	—	1,414,647	43,136	( <sup>8</sup> )	1,524,389	50 9
1891-1895 .....	284,346	—	1,864,201	16,903	( <sup>8</sup> )	2,131,644	64 3
1896-1900 .....	326,362	—	1,943,678	5,660	( <sup>8</sup> )	2,264,380	62 2
1901-1905 .....	542,788	500,764	1,839,377	7,301	( <sup>8</sup> )	2,875,638	71 7
1906-1910 .....	808,015	751,650	1,956,304	32,423	( <sup>8</sup> )	3,483,547	78 9
1911-1915 .....	985,511	1,038,605	2,187,469	91,554	15,164	4,104,880	85 7
1916-1920 .....	1,069,086	1,066,272	2,834,957	642,023	44,538	4,283,754	83 3
1921-1925 .....	1,232,959	1,314,489	3,721,100	448,697	36,102	5,783,849	104 4
1912 .....	1,005,337	1,187,663	1,852,424	50,380	15,160	3,959,883	83 9
1913 .....	907,070	1,026,972	2,266,426	30,963	19,217	4,150,288	86 6
1914 .....	1,088,844	936,376	2,463,252	37,190	11,892	4,439,489	91 3
1915 .....	1,022,828	1,098,314	2,529,963	302,641	13,585	4,334,878	87 9
1916 .....	1,078,407	1,102,057	2,689,067	382,864	12,213	3,974,463	79 4
1917 .....	1,193,107	1,203,938	2,527,984	676,752	29,211	4,219,066	78 5
1918 .....	1,068,437	975,684	2,344,816	305,429	46,131	4,037,377	73 2
1919 .....	1,102,421	1,073,944	2,799,962	568,566	36,747	4,371,013	83 8
1920 .....	903,060	975,735	3,812,955	776,502	98,886	4,816,362	91 1
1921 .....	1,346,811	1,076,342	3,228,279	319,589	89,491	5,242,852	97 6
1922 .....	1,424,726	1,340,867	3,940,777	1,085,349	31,397	5,589,624	102 4
1923 .....	1,021,360	1,235,049	4,068,205	412,196	12,568	5,899,849	106 5
1924 .....	1,111,898	1,274,870	3,436,955	152,883	24,617	5,646,223	100 2
1925 .....	1,260,000	1,645,319	3,931,282	273,470	22,436	6,540,695	114 2
1926 .....	1,121,000	1,981,482	3,895,947	325,804	24,998	6,047,627	114 4
1927 .....	1,011,000	1,689,347	3,968,880	124,555	26,303	6,518,369	110 6
1928 .....	1,246,000	2,051,756	3,415,736	115,781	29,473	6,568,238	110 1
1929 (preliminary) ..	1,273,000	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )

<sup>1</sup> Beet and cane sugar only.

<sup>2</sup> Includes Hawaii, Porto Rico, and the Philippine Islands; Virgin Islands included after 1916.

<sup>3</sup> Sugar imported in other forms excluded. Imports from the Philippine Islands excluded after 1900.

<sup>4</sup> Imported raw sugar reexported is excluded from both imports and exports.

<sup>5</sup> Includes shipments to Hawaii and Porto Rico. Excludes direct exports from them to foreign countries.

<sup>6</sup> Sugar used in the manufacture of other commodities for exports on which drawback was paid.

<sup>7</sup> Stocks at the beginning or end of year ignored. <sup>8</sup> Not computed. <sup>9</sup> Not yet available.

**No. 665.—SUGAR: PRODUCTION, TRADE, AND SUPPLY AVAILABLE FOR CONSUMPTION, CONTINENTAL UNITED STATES—Continued**

Year ending June 30—	Production	Brought in from insular areas	Imports as sugar	Exports as sugar	Exports in other forms	Available for consumption	
						Total	Per capita
	In terms of refined sugar <sup>10</sup>						
	<i>Short tons</i>	<i>Short tons</i>	<i>Short tons</i>	<i>Short tons</i>	<i>Short tons</i>	<i>Short tons</i>	<i>Pounds</i>
1922-----	1,325,906	1,260,894	3,686,397	1,009,377	29,182	5,234,638	95 9
1923-----	850,625	1,161,351	3,805,745	383,439	11,682	5,222,600	99 7
1924-----	1,034,615	1,198,777	3,214,333	142,217	22,943	5,233,115	98 7
1925-----	1,172,000	1,547,587	3,674,593	254,391	20,911	6,118,948	106 8
1926-----	1,043,000	1,859,332	3,634,323	303,073	23,298	6,210,284	106 8
1927-----	941,000	1,588,981	3,714,054	115,865	24,514	6,103,656	103 6
1928-----	1,159,000	1,930,732	3,196,396	107,704	27,469	6,150,955	103 1
1929 (preliminary) --	1,184,000	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )

<sup>9</sup> Not yet available

<sup>10</sup> Raw sugar converted to refined by multiplying by the following factors: Cuba and Hawaii, 0.9358, Porto Rico, 0.9393; Philippine Islands, 0.95; all others, 0.932

**No. 666.—SUGAR, RAW: PERCENTAGES RELATING TO SUGAR CONSUMPTION OF CONTINENTAL UNITED STATES**

Yearly average or year ending June 30—	Per cent of world production retained for consumption	Per cent of consumption from <sup>1</sup> —			Year ending June 30—	Per cent of world production retained for consumption	Per cent of consumption from <sup>1</sup> —		
		Domes-tic	Non-contig-uous terri-tory	All for-eign coun-tries			Domes-tic	Non-contig-uous terri-tory	All for-eign coun-tries
1866-1870-----	( <sup>2</sup> )	-----	-----	-----	1914-----	21 1	24 5	21 1	54 4
1871-1875-----	( <sup>2</sup> )	8 6	-----	91 4	1915-----	20 8	23 6	25 3	51 1
1876-1880-----	( <sup>2</sup> )	10 7	-----	89 3	1916-----	21 1	27 1	27 7	45 2
1881-1885-----	( <sup>2</sup> )	10 5	-----	89 5	1917-----	22 7	28 3	28 5	43 2
1886-1890-----	( <sup>2</sup> )	10 0	-----	90 0	1918-----	19 9	26 4	24 2	49 4
1891-1895-----	( <sup>2</sup> )	13 3	-----	86 7	1919-----	23 3	25 2	24 6	50 2
1896-1900-----	20 9	14 4	-----	85 6	1920-----	26 8	18 7	20 3	61 0
1901-1905-----	21 6	18 9	17 4	63 7	1921-----	26 8	25 7	20 5	53 8
1906-1910-----	22 1	23 2	21 6	55 2	1922-----	27 2	25 5	24 0	50 5
1911-1915-----	20 7	24 0	25 3	50 7	1923-----	28 3	17 3	20 9	61 8
1916-1920-----	22 7	25 0	24 9	50 1	1924-----	24 7	19 7	22 6	57 7
1921-1925-----	26 2	21 3	22 7	56 0	1925-----	24 6	19 3	25 1	55 6
1911-----	19 3	24 8	25 9	49 3	1926-----	23 8	16 9	29 8	53 3
1912-----	22 1	25 4	30 0	44 6	1927-----	24 6	15 5	25 9	56 6
1913-----	20 4	21 9	24 7	53 4	1928-----	23 2	19 0	31 2	49 8

<sup>1</sup> Exports assumed to be wholly from sugar imported from foreign countries. <sup>2</sup> Not available.

**No. 667.—SUGAR: WHOLESALE PRICES OF RAW AND REFINED, NEW YORK**  
[Cents per pound]

Yearly average or year	Raw, 96° centrifugal	Re-fined, gran-ulated	Month	Raw, 96° centrifugal	Re-fined, gran-ulated	Month	Raw, 96° centrifugal	Re-fined, gran-ulated	Month	Raw, 96° centrifugal	Re-fined, gran-ulated
1891-1895--	3 4	4.4	1926			1927			1928		
1896-1900--	4.0	4.8	Jan-----	4 2	5 1	Jan-----	5 1	6 2	Jan-----	4.5	5 7
1901-1905--	3.9	4 8	Feb-----	4 2	5 2	Feb-----	4.9	6 0	Feb-----	4.3	5 6
1906-1910--	3 9	4 7	Mar-----	4 0	4 9	Mar-----	4.8	5 8	Mar-----	4.5	5.7
1911-1915--	4 1	5 0	Apr-----	4 1	5 2	Apr-----	4.8	5 8	Apr-----	4.5	5 8
1916-1920--	7 8	8 8	May-----	4 2	5 5	May-----	4.8	6 0	May-----	4.5	5 9
1921-1925--	5 4	6 7	June-----	4 1	5 4	June-----	4.6	6 0	June-----	4.3	5 9
1921-----	4 8	6 2	July-----	4 2	5 6	July-----	4.5	5 9	July-----	4 2	5 7
1922-----	4 7	5 9	Aug-----	4 2	5 5	Aug-----	4.5	5 6	Aug-----	4.1	5.5
1923-----	7 0	8 4	Sept-----	4.4	5.6	Sept-----	4.8	5 8	Sept-----	4.2	5.6
1924-----	6 0	7 5	Oct-----	4.6	5.7	Oct-----	4.7	5 7	Oct-----	3 9	5.2
1925-----	4 3	5 5	Nov-----	4 7	5 8	Nov-----	4.7	5 6	Nov-----	3 9	5 1
1926-----	4 3	5 5	Dec-----	5.1	6 1	Dec-----	4.6	5 6	Dec-----	3 9	5 2
1927-----	4 7	5 8									
1928-----	4.2	5.6									

Sources: Tables 665 and 666, Bureau of Agricultural Economics, Department of Agriculture; Table 667<sup>9</sup> Survey of Current Business, Department of Commerce.

## No. 668.—SUGAR BEETS AND BEET SUGAR: PRODUCTION

NOTE.—Prior to 1924 acreage and production of beets are accredited to State in which made into sugar and include a small quantity produced in Canada for United States factories. "Per cent of sucrose in beets" is based on analysis, "Per cent extracted" is per cent of total weight of beets actually recovered by factories. Tons are 2,000 pounds

Yearly average or year and State	Beets produced for sugar					Sugar manufacture				
	Acres harvested	Crop <sup>1</sup> (1,000 tons)	Tons per acre	Price per ton (dollars)	Farm value (1,000 dollars)	Number of factories	Beets used (1,000 tons)	Sugar made (1,000 tons)	Per cent of sucrose—	
									In beets	Ex-tracted
<b>United States<sup>2</sup></b>										
1901-1905.....	227,841	2,079	9 22	4 89	10,166	45	2,079	240	15 03	11 50
1906-1910.....	386,052	3,910	10 13	<sup>3</sup> 5 13	20,254	63	3,910	479	15 78	12 27
1911-1915.....	540,777	5,654	10 17	5 63	30,836	67	5,477	724	16 17	13 18
1916-1920.....	697,649	6,623	8 88	9 38	58,156	88	6,200	832	15 85	13 41
1921-1925.....	694,400	6 981	10 05	7 47	51,991	88	6,006	916	15 71	13 86
1920.....	872,000	8,538	9 79	11 63	99,324	97	7,991	1,089	15 99	13 63
1921.....	815,000	7,782	9 55	6 35	49,392	92	7,414	1,020	15 77	13 76
1922.....	530,000	5,183	9 77	7 91	41,017	81	4,963	675	15 44	13 61
1923.....	657,000	7,006	10 66	8 99	62,965	89	6,565	881	15 30	13 37
1924.....	815,000	7,489	9 20	7 95	59,524	90	7,075	1,090	17 19	15 41
1925.....	647,000	7,381	11 40	6 39	47,137	88	6,993	913	14 86	13 06
1926.....	677,000	7,223	10 67	7 61	54,964	78	6,782	897	14 94	12 23
1927.....	721,000	7,753	10 75	7 67	59,455	83	7,443	1,093	16 11	14 68
1928 <sup>4</sup> .....	644,000	7,101	11 03	7 18	50,960	82	6,880	1,061	16 73	15 42
<b>California</b>										
1916-1920.....	126,735	1,097	8 77	10 65	10,725	12	1,097	174	17 88	15 76
1921-1925.....	79,800	665	8 33	9 46	6,293	7	662	113	18 41	17 00
1926.....	46,000	369	8 0	9 25	3,411	5	363	68	19 28	18 73
1927.....	59,000	476	8 1	9 28	4,418	7	470	84	18 72	17 87
1928 <sup>4</sup> .....	49,000	658	13 0	8 00	5,104	5	630	103	18 14	16 35
<b>Colorado</b>										
1916-1920.....	175,678	1,882	10 71	9 25	17,401	15	1,774	233	15 19	13 16
1921-1925.....	174,600	2,001	11 46	7 13	14,273	16	1,903	259	15 16	13 59
1926.....	211,000	2,912	13 8	7 92	23,050	17	2,765	377	15 05	13 63
1927.....	218,000	2,774	12 7	7 84	21,758	17	2,652	381	15 38	14 37
1928 <sup>4</sup> .....	179,000	2,394	13 4	7 00	16,758	17	2,410	384	16 51	15 93
<b>Idaho</b>										
1916-1920.....	37,525	322	8 59	9 22	2,973	7	309	42	16 40	13 63
1921-1925.....	37,000	381	10 30	7 23	2,715	7	360	55	16 90	15 26
1926.....	18,000	108	6 0	6 91	744	3	129	19	16 28	14 73
1927.....	20,000	381	13 1	7 50	2,854	5	373	61	17 69	16 35
1928 <sup>4</sup> .....	27,000	297	11 0	7 00	2,079	6	317	53	17 86	16 72
<b>Michigan</b>										
1916-1920.....	113,936	912	8 0	10 02	9,137	16	826	112	15 92	13 61
1921-1925.....	121,200	986	8 14	7 67	7,344	16	915	120	14 97	13 11
1926.....	100,000	793	7 9	7 00	5,552	15	860	106	15 23	12 33
1927.....	99,000	698	7 0	7 16	4,996	14	780	109	16 28	13 97
1928 <sup>4</sup> .....	71,000	452	6 4	7 50	3,390	12	458	64	16 30	13 97
<b>Montana and Wyoming<sup>5</sup></b>										
1922-1925.....	42,750	470	10 99	7 71	3,690	4	441	63	16 30	14 29
1926.....	68,000	736	10 8	7 55	5,557	7	638	84	14 73	13 17
1927.....	69,000	795	11 52	7 92	6,299	7	711	111	17 02	15 61
1928 <sup>4</sup> .....	72,000	720	10 0	7 09	5,104	8	643	103	17 26	16 02
<b>Nebraska</b>										
1916-1920.....	53,315	540	10 13	9 62	5,201	4	505	64	15 07	12 68
1921-1925.....	61,800	763	12 35	7 10	5,419	5	718	96	15 34	13 39
1926.....	79,000	923	11 7	7 88	7,274	6	898	104	13 14	11 58
1927.....	82,000	1,036	12 6	7 96	8,241	7	1,012	134	15 12	13 24
1928 <sup>4</sup> .....	86,000	1,021	11 9	7 00	7,147	7	975	146	16 29	14 97
<b>Ohio</b>										
1916-1920.....	32,331	289	8 94	9 84	2,846	5	261	31	15 49	12 15
1921-1925.....	35,600	313	8 80	7 85	2,532	5	291	34	14 47	11 62
1926.....	35,000	340	9 7	7 00	2,383	5	270	26	12 59	9 63
1927.....	37,000	325	8 8	7 00	2,272	4	249	36	16 87	14 46
1928 <sup>4</sup> .....	38,000	266	7 0	7 50	1,995	5	238	31	16 09	13 03
<b>Utah</b>										
1916-1920.....	89,206	994	11 14	9 63	9,569	16	896	109	15 29	12 09
1921-1925.....	83,200	930	11 18	6 85	6,413	17	879	123	16 09	13 96
1926.....	51,000	415	8 1	6 97	2,894	10	356	53	16 29	14 89
1927.....	55,000	677	12 3	7 03	4,761	11	623	94	16 69	15 09
1928 <sup>4</sup> .....	51,000	637	12 5	7 00	4,459	11	568	90	17 28	15 85
<b>Wisconsin</b>										
1916-1920.....	12,397	110	8 85	9 89	1,084	4	99	12	15 05	11 94
1921-1925.....	14,600	120	8 25	7 43	951	4	111	13	15 39	12 05
1926.....	17,000	158	9 3	7 24	1,141	3	107	12	14 02	11 21
1927.....	11,000	90	8 2	7 00	633	3	100	13	16 00	13 00
1928 <sup>4</sup> .....	8,000	74	9 2	7 50	555	3	86	12	16 56	13 95

<sup>1</sup> Beets used 1901 to 1912<sup>2</sup> Includes data for States not shown covering 63,000 acres of beets in 1928.<sup>3</sup> Four-year average.<sup>4</sup> Preliminary.<sup>5</sup> Prior to 1922 Montana and Wyoming data not segregated.

Source: Bureau of Agricultural Economics, Department of Agriculture.

## No. 669.—LOUISIANA SUGAR CANE, CANE SUGAR, AND MOLASSES

NOTE.—Louisiana produces practically all the cane sugar produced in the United States. In other States cane is largely used for making sirup (see Table 672). Tons are of 2,000 pounds.

Yearly average or year	Total acres in cane	Cane used for sugar			Factories in operation	Sugar made		Molasses made	
		Acres harvested	Crop (1,000 tons)	Yield per acre (tons)		Amount (1,000 tons)	Per ton of cane (pounds)	Amount (1,000 gallons)	Per ton of sugar (gallons)
1911-1915.....	-----	230,200	3,496	14.6	150	236	137.6	20,666	88
1916-1920.....	-----	211,789	3,286	15.1	138	224	135.4	22,956	102
1921-1925.....	305,820	207,589	3,044	13.9	107	202	139.9	19,286	91
1924.....	301,100	162,640	1,228	7.6	82	88	144.1	9,590	109
1925.....	263,000	190,248	2,645	14.0	91	139	105.4	17,783	128
1926.....	198,000	127,916	864	6.7	54	47	109.1	6,614	141
1927.....	105,000	72,987	962	13.4	46	71	147.2	6,624	94
1928.....	151,680	114,991	1,860	16.2	55	132	141.9	13,535	102

## SUGAR MADE (1,000 TONS)

1906.....	258	1911.....	353	1916.....	304	1921.....	324
1907.....	381	1912.....	154	1917.....	244	1922.....	295
1908.....	398	1913.....	293	1918.....	281	1923.....	162
1909.....	364	1914.....	243	1919.....	121	1924.....	88
1910.....	343	1915.....	138	1920.....	169	1925.....	189

## No. 670.—HAWAIIAN SUGAR CANE AND CANE SUGAR

NOTE.—Figures are for years ending September 30. All tons are of 2,000 pounds.

Yearly average or year	Total acres in cane	Cane used for sugar			Sugar made	
		Acres harvested	Crop (1,000 tons)	Yield per acre (tons)	Amount (1,000 tons)	Per cent of cane used
<b>All islands:</b>						
1913-1915.....	-----	113,500	4,854	43	602	12.39
1916-1920.....	251,206	118,584	4,830	41	594	12.30
1921-1925.....	234,700	116,820	5,253	45	622	11.84
1924.....	232,000	111,000	5,661	51	691	12.21
1925.....	241,000	122,000	6,297	52	769	12.21
1926.....	237,774	122,309	6,496	53	787	12.12
1927.....	251,237	127,417	7,181	56	812	11.31
1928.....	240,769	131,534	7,707	59	897	11.64
<b>Hawai—1926.....</b>	109,063	55,236	2,442	44	279	11.42
1927.....	110,978	56,135	2,516	45	261	10.38
1928.....	106,653	56,111	2,736	49	295	10.78
<b>Kauai—1926.....</b>	44,796	23,494	1,153	49	136	11.77
1927.....	51,137	26,810	1,432	53	156	10.92
1928.....	44,635	28,279	1,505	53	163	10.83
<b>Mau—1926.....</b>	39,518	19,886	1,186	60	159	13.41
1927.....	42,082	20,632	1,338	65	172	12.86
1928.....	47,850	21,752	1,454	67	192	13.20
<b>Oahu—1926.....</b>	44,397	23,693	1,715	72	213	12.46
1927.....	47,040	23,840	1,895	79	223	11.76
1928.....	41,730	25,391	2,013	79	247	12.27

## TOTAL, ALL ISLANDS: SUGAR MADE (1,000 TONS)

1906.....	429	1911.....	567	1916.....	593	1921.....	522
1907.....	440	1912.....	595	1917.....	645	1922.....	592
1908.....	521	1913.....	547	1918.....	577	1923.....	537
1909.....	535	1914.....	612	1919.....	600	1924.....	691
1910.....	517	1915.....	646	1920.....	556	1925.....	769

Sources: Table 669 and Table 670 prior to 1926, Bureau of Agricultural Economics, Department of Agriculture; Table 670, beginning 1926, Hawaiian Sugar Planters Association.

## No. 671.—MAPLE SUGAR AND SIRUP: PRODUCTION BY STATES

State and year	Trees tapped	Sugar made	Sirup made	Total product in terms of sugar <sup>1</sup>	State and year	Trees tapped	Sugar made	Sirup made	Total product in terms of sugar <sup>1</sup>
<b>CENSUS RETURNS</b>									
Total United States:	Thou- sands	1,000 pounds	1,000 gallons	1,000 pounds	Vermont	Thou- sands	1,000 pounds	1,000 gallons	1,000 pounds
1859-----	40, 120	1, 598	52, 901		1925-----	5, 554	1, 794	856	9, 442
1869-----	28, 444	921	35, 812		1926-----	5, 554	1, 602	880	9, 442
1879-----	36, 576	1, 796	50, 944		1927-----	5, 685	1, 694	1, 417	13, 030
1889-----	32, 953	2, 258	51, 020		1928 <sup>2</sup> -----	5, 722	1, 133	1, 038	9, 437
1899-----	11, 929	2, 057	28, 382		Massachusetts				
1909-----	18, 900	14, 024	4, 106	46, 912	1925-----	272	126	56	571
1919-----	17, 457	9, 692	3, 508	37, 754	1926-----	272	128	86	816
<b>DEPARTMENT OF AGRICULTURE<sup>3</sup></b>					1927-----	1, 929	132	75	732
Total					1928 <sup>2</sup> -----	280	134	67	670
1920-----	18, 895	7, 324	3, 580	35, 960	New York				
1921-----	15, 114	4, 730	2, 386	23, 820	1925-----	3, 998	624	896	7, 792
1922-----	16, 274	5, 147	3, 640	34, 263	1926-----	3, 958	1, 168	1, 128	10, 192
1923-----	15, 291	4, 685	3, 605	33, 533	1927-----	3, 839	733	1, 002	8, 749
1924-----	15, 407	4, 078	3, 903	35, 302	1928 <sup>2</sup> -----	3, 647	549	718	6, 293
1925-----	15, 313	3, 236	3, 089	27, 948	Pennsylvania:				
1926-----	15, 245	3, 577	3, 900	34, 776	1925-----	696	208	191	1, 736
1927-----	14, 603	3, 236	3, 672	32, 612	1926-----	696	223	251	2, 231
1928 <sup>2</sup> -----	14, 388	2, 338	3, 013	26, 492	1927-----	626	148	139	1, 260
Maine:					1928 <sup>2</sup> -----	607	67	157	1, 823
1925-----	320	22	51	432	Ohio				
1926-----	304	29	61	517	1925-----	1, 747	122	341	2, 850
1927-----	310	15	60	495	1926-----	1, 700	68	57	4, 692
1928 <sup>2</sup> -----	304	3	38	307	1927-----	1, 666	134	489	4, 046
New Hampshire:					1928 <sup>2</sup> -----	1, 583	129	486	4, 017
1925-----	798	227	161	1, 516	Michigan:				
1926-----	790	233	198	1, 817	1925-----	838	75	179	1, 507
1927-----	822	289	164	1, 601	1926-----	863	100	300	2, 503
1928 <sup>2</sup> -----	806	274	137	1, 370	1927-----	828	72	172	1, 448
					1928 <sup>2</sup> -----	869	70	208	1, 734
					Wisconsin:				
					1925-----	575	28	110	908
					1926-----	575	18	155	1, 258
					1927-----	570	19	154	1, 251
					1928 <sup>2</sup> -----	570	29	164	1, 841

<sup>1</sup> 1 gallon of sirup taken as equivalent to 8 pounds of sugar.<sup>2</sup> Totals cover the 9 States listed, except that for 1920 to 1923 Connecticut, which produced only a negligible quantity of sugar and sirup, and prior to 1927 Indiana, are included. The 11 States included for 1920 to 1923 produced 97.1 per cent of the maple sugar and 97.2 per cent of the maple sirup made in the United States in 1919, and had 98.1 per cent of the trees tapped as reported by the Bureau of the Census.<sup>3</sup> Preliminary.

## No. 672.—SUGAR CANE AND SIRUP IN SOUTHERN STATES

NOTE.—Sorghum, sometimes confused with sugar cane, is not included. For molasses, a by-product of sugar refineries and not included in this table, see Table 669.

State and year	Cane harvested for sirup	Sirup produced	State and year	Cane harvested for sirup	Sirup produced
<b>All States:</b>					
	Acres	1,000 gallons	Alabama:	Acres	1,000 gallons
1920-----	174, 100	38, 980	1926-----	20, 000	3, 300
1921-----	210, 200	41, 167	1927-----	18, 000	2, 430
1922-----	214, 300	41, 611	1928-----	16, 000	1, 872
1923-----	200, 000	33, 620	Mississippi:		
1925-----	125, 000	20, 400	1926-----	14, 000	2, 870
1926-----	132, 000	22, 172	1927-----	17, 000	3, 655
1927-----	114, 000	20, 839	1928-----	18, 000	3, 600
1928-----	113, 000	21, 783	Louisiana:		
South Carolina:			1926-----	34, 000	4, 516
1926-----	5, 000	700	1927-----	15, 000	4, 787
1927-----	7, 000	980	1928-----	23, 000	8, 061
1928-----	6, 000	750	Texas:		
Georgia:			1926-----	11, 000	2, 156
1926-----	35, 000	6, 125	1927-----	12, 000	2, 040
1927-----	34, 000	5, 100	1928-----	11, 000	1, 760
1928-----	29, 000	4, 060	Arkansas:		
Florida:			1926-----	3, 000	405
1926-----	10, 000	2, 100	1927-----	2, 000	200
1927-----	9, 000	1, 647	1928-----	2, 000	240
1928-----	8, 000	1, 440			

Source of Tables 671 and 672. Bureau of Agricultural Economics, Department of Agriculture, except data for 1859 to 1919, Table 671, which are from the Bureau of the Census, Department of Commerce.

No. 673.—COTTONSEED AND COTTONSEED PRODUCTS: PRODUCTION, VALUE, AND EXPORTS  
 NOTE.—Data relate to 12 months ended July 31, except exports, which are for 12 months ended June 30 of year indicated in stub. Tons are of 2,000 pounds

Yearly average or year ended July 31 or June 30—	Cottonseed		Production					Value					Value per unit				Exports	
	Pro- duc- tion	Used in mills	Oil	Meal and cake	Hulls	Linters	All products	Oil	Meal and cake	Hulls	Linters	Oil	Meal and cake	Hulls	Linters	Oil	Meal and cake	
			1,000 pounds	1,000 tons	1,000 tons	Bales <sup>1</sup>	1,000 dollars	1,000 dollars	1,000 dollars	1,000 dollars	1,000 dollars	1,000 dollars	Cents per lb	Dollars per ton	Dollars per ton	Cents per pound	1,000 pounds	1,000 tons
1881-1890.....	3,018	553	165,810	193	1,369	117,327	12,064	7,864	4,300	3,190	1,800	2	22 25	3 2 73	3 1	3 1	34,038	388
1891-1900.....	4,280	1,625	483,015	570	1,382	114,544	26,580	11,733	11,733	8,100	2,886	3	20 19	3 4	3 0	3 4	191,157	548
1901-1905.....	5,139	3,085	890,745	1,130	1,369	117,327	65,148	34,038	22,824	10,126	3,514	40 7	24 07	6 06	6 06	2 2	311,463	578
1906-1910.....	6,263	3,286	96,450	1,339	1,215	292,064	83,424	40,432	32,236	10,126	6,526	5 1	23 86	6 53	6 53	2 2	290,311	551
1911-1915.....	6,363	3,487	1,466,940	2,162	1,527	595,225	145,766	75,394	51,580	10,126	14,846	13 8	46 18	13 68	5 6	5 6	172,877	301
1916-1920.....	5,116	4,285	1,302,500	2,041	1,093	973,474	312,781	175,249	92,191	14,539	14,120	8 1	37 10	10 87	4 6	4 6	106,371	258
1921-1925.....	4,878	3,646	1,125,106	1,654	1,082	978,384	177,947	91,147	61,141	11,210	7,630	5 6	26 94	8 00	2 3	2 3	192,963	400
1914.....	6,305	4,848	1,448,975	2,220	1,400	660,087	156,670	89,810	57,740	8,450	6,150	4 7	21 81	5 04	1 5	1 5	318,367	740
1915.....	7,186	5,780	1,719,450	2,648	1,677	820,274	152,880	80,540	57,740	12,340	26,120	7 0	28 01	10 11	2 9	2 9	266,512	529
1916.....	4,992	4,202	1,253,325	1,923	1,220	889,577	180,260	87,940	53,860	13,964	45,193	10 9	33 52	14 44	7 1	7 1	158,986	575
1917.....	5,113	4,479	1,407,660	2,225	969	1,273,545	287,192	153,419	74,886	18,878	26,604	16 6	47 08	18 95	4 9	4 9	100,780	222
1918.....	5,040	4,252	1,312,470	2,068	996	1,080,802	360,736	217,902	97,352	116,119	17,917	22 228	17 2	53 51	5 0	5 0	178,700	156
1919.....	5,360	4,479	1,326,533	2,170	1,137	889,500	383,580	217,316	116,119	11,095	12,336	17 3	66 51	9 71	4 2	4 2	166,400	228
1920.....	5,074	4,013	1,211,464	1,817	1,143	584,146	352,138	204,698	119,039	10,059	3,506	6 5	22 64	8 00	1 7	1 7	283,268	227
1921.....	5,971	4,009	1,300,183	1,786	1,266	422,226	150,513	84,650	58,298	8,949	6,019	7 7	36 84	9 55	3 5	3 5	31,015	206
1922.....	4,511	3,008	830,475	1,385	937	383,447	136,874	71,508	49,898	12,200	17,199	8 5	39 06	12 53	5 9	5 9	64,252	227
1923.....	4,336	3,242	1,002,922	1,487	944	642,177	173,254	88,093	59,300	12,737	22,007	9 0	39 06	13 54	6 9	6 9	39,429	126
1924.....	4,502	3,308	979,617	1,518	941	642,148	182,137	88,093	59,300	13,749	21,268	9 0	37 24	10 33	4 9	4 9	53,261	443
1925.....	6,051	4,605	1,408,781	2,128	1,331	866,624	240,855	134,665	79,173	13,749	23,218	8 6	31 39	8 17	4 3	4 3	63,230	358
1926.....	7,150	5,553	1,617,015	2,597	1,547	1,068,919	256,027	135,652	81,508	12,649	16,882	7 5	23 52	4 79	3 0	3 0	57,580	495
1927.....	7,989	6,306	1,887,910	2,840	1,864	1,112,019	240,284	142,242	72,476	8,985	24,878	9 0	38 50	7 57	5 1	5 1	61,470	332
1928.....	4,654	1,476,009	2,093	977,870	977,870	247,937	139,372	80,582	50,162	9,965	24,878	9 0	38 50	7 57	5 1	5 1	61,470	332
Alabama.....	530	287	96,534	133	87	69,069	16,015	8,732	6,010	732	1,621	9 1	37 67	8 64	5 2	5 2	5 2	5 2
Arkansas.....	444	309	102,616	126	96	66,784	16,615	9,112	4,955	694	1,854	8 9	39 33	6 19	5 6	5 6	5 6	5 6
Georgia.....	488	445	147,753	199	128	96,139	24,341	13,505	7,452	1,079	2,305	9 1	37 45	8 43	4 9	4 9	4 9	4 9
Louisiana.....	243	165	53,110	72	48	34,468	8,615	4,759	2,637	357	3,932	9 0	36 63	7 44	5 1	5 1	5 1	5 1
Mississippi.....	602	555	184,984	233	161	119,197	30,801	16,797	8,998	1,074	3,932	9 1	38 62	6 67	6 6	6 6	6 6	6 6
North Carolina.....	332	303	100,281	139	78	66,082	16,335	8,985	6,277	569	1,504	9 0	37 96	7 29	5 1	5 1	5 1	5 1
Oklahoma.....	383	333	117,577	138	103	75,582	20,019	10,264	7,282	701	1,772	8 7	39 79	6 81	4 7	4 7	4 7	4 7
South Carolina.....	324	212	69,064	90	52	49,801	11,729	6,147	3,832	464	1,286	8 9	38 71	8 92	5 1	5 1	5 1	5 1
Tennessee.....	159	285	86,404	108	82	64,601	14,941	7,973	4,300	556	1,812	9 2	39 81	6 78	5 6	5 6	5 6	5 6
Texas.....	1,940	1,558	468,822	723	443	323,626	79,877	41,267	27,920	3,510	7,180	8 8	38 62	7 92	4 4	4 4	4 4	4 4
Other States.....	185	163	52,388	76	44	31,319	8,989	4,831	2,919	339	7,850	9 2	37 42	7 70	5 5	5 5	5 5	5 5

<sup>1</sup> Of 500 pounds net.

<sup>2</sup> Figures for 1900.

<sup>3</sup> Six-year average, 1895-1900.

Source: Bureau of the Census, Department of Commerce.

## No 674.—COTTON: PRODUCTION, CONSUMPTION, EXPORTS, IMPORTS, AND PRICES

NOTE.—All quantities in thousands of bales, reduced to equivalent of 500 pounds, gross weight. Production statistics relate to the growth year indicated in the stub. Other statistics for the most part relate to the 12-month period roughly corresponding to the marketing of the crop, there have been minor variations from time to time in the periods covered. An exception appears in the price statistics from 1902 to 1909 which represent marketings of the preceding crop up to Mar 31. Prices for 1902 to 1909 represent the average grade at New Orleans. Prices from 1910 to date represent average price on the farm of all lint cotton throughout the country. Production, consumption, and exports include linters.

Year or yearly average (growth year)	Produc- tion	Con- sump- tion	Domes- tic ex- ports	Net imports	Year (growth year)	Produc- tion	Con- sump- tion	Domes- tic ex- ports	Net imports
1790-----	3	11	( <sup>1</sup> )	1	1906-----	13,595	4,974	8,825	203
1800-----	73	19	32	9	1907-----	11,375	4,493	7,780	141
1810-----	178	36	124	( <sup>1</sup> )	1908-----	13,587	5,199	8,890	165
1820-----	335	100	250	( <sup>1</sup> )	1909-----	10,315	4,759	6,492	151
					1910-----	12,006	4,713	8,026	231
1830-----	732	130	554	( <sup>1</sup> )					
1840-----	1,348	245	1,060	1	1911-----	16,250	5,400	11,081	229
1850-----	2,136	423	1,854	( <sup>1</sup> )	1912-----	14,313	5,867	9,199	225
1860-----	3,841	842	615		1913-----	14,795	5,943	9,256	266
1870-----	4,023	1,027	2,923	2	1914-----	16,992	6,087	8,931	364
					1915-----	12,123	7,327	6,406	421
1866-1875-----	3,104	1,007	2,164	3					
1876-1885-----	5,452	1,708	3,721	6	1916-----	12,781	7,721	5,964	288
1886-1895-----	7,636	2,473	5,174	52	1917-----	12,428	7,555	4,587	217
1896-1900-----	10,133	3,455	6,907	115	1918-----	12,970	6,289	5,843	197
					1919-----	12,029	6,808	6,761	683
1901-1905-----	11,007	4,830	7,210	141	1920-----	13,880	5,478	6,026	211
1906-1910-----	12,176	4,828	8,002	178					
1911-1915-----	14,895	6,125	8,975	301	1921-----	8,351	6,560	6,479	352
1916-1920-----	12,817	6,770	5,836	319	1922-----	10,370	7,350	5,049	450
1921-1925-----	12,247	6,864	6,855	338	1923-----	10,808	6,225	5,936	272
					1924-----	14,488	6,878	8,435	303
1901-----	9,676	4,080	6,870	190	1925-----	17,219	7,307	8,377	314
1902-----	10,827	4,187	6,914	149					
1903-----	10,046	3,981	6,234	100	1926-----	19,135	8,178	11,587	382
1904-----	13,680	4,523	9,057	130	1927-----	13,972	7,829	8,080	321
1905-----	10,805	4,877	6,975	133	1928 (prel)-----	15,760	8,215	8,637	442

## AVERAGE PRICE, UPLAND LINT COTTON, CENTS PER POUND

1790-----	26 0	1901-1905-----	9 6	1912-----	11 5	1927-----	20 2
1800-----	44 0	1906-1910-----	11.8	1913-----	12 5	1928-----	18.0
1810-----	15.5	1911-1915-----	10 4	1914-----	7 3		
1820-----	14.3	1916-1920-----	24 9	1915-----	11 2	1928	
1830-----	9 7	1921-1925-----	22.2	1916-----	17.3	August-----	18 8
						September-----	17 6
1840-----	9.5	1901-----	8.1	1917-----	27.1	October-----	18.1
1850-----	12.1	1902-----	8 2	1918-----	28 8	November-----	17.8
1860-----	13.0	1903-----	12.2	1919-----	35 4	December-----	18 0
1870-----	17 0	1905-----	10 9	1920-----	15 8	1929	
1871-1875-----	16.7	1906-----	10.0	1921-----	16 9	January-----	17 9
						February-----	18 0
1876-1880-----	11.4	1907-----	11.5	1922-----	22 9	March-----	18.8
1881-1885-----	10 7	1908-----	9.2	1923-----	28 7	April-----	18 5
1886-1890-----	10 3	1909-----	14 3	1924-----	22 9	May-----	18 0
1891-1895-----	7.5	1910-----	14 0	1925-----	19 6	June-----	17 9
1896-1900-----	6.9	1911-----	9 6	1926-----	12 5	July-----	17 8

<sup>1</sup> Less than 500 bales

Source: Bureau of the Census. See Bulletin 164, p 53, of that bureau for original sources.



## No. 675.—EXPORTS OF UNITED STATES COTTON (INCLUDING LINTERS)

Yearly average or year ended June 30—	Total value (thousands of dollars)	Quantity in thousands of equivalent 500-pound bales, exported to—									
		All countries	Total Europe	United Kingdom	Germany	France	Italy	Spain	Belgium	Japan	Canada
1866-1875.....	205, 285	1, 983	1, 972	1, 433	142	227	17	56	11	-----	4
1876-1885.....	200, 146	3, 594	3, 553	2, 311	336	421	54	125	28	-----	21
1886-1895.....	227, 678	5, 121	5, 020	2, 951	844	536	162	192	120	18	64
1896-1900.....	220, 557	6, 465	6, 163	2, 968	1, 523	715	367	239	122	167	96
1901-1905.....	334, 256	7, 097	6, 769	3, 096	1, 812	778	431	251	139	158	113
1906-1910.....	437, 582	7, 850	7, 508	3, 243	2, 180	956	486	252	130	183	133
1911-1915.....	537, 044	9, 318	8, 706	3, 804	2, 196	1, 031	648	327	164	363	165
1916-1920.....	765, 515	5, 920	4, 972	2, 796	-----	795	614	310	-----	661	211
1921-1925.....	764, 101	6, 386	5, 405	1, 863	1, 390	764	584	272	186	713	189
1914.....	610, 475	9, 522	8, 972	3, 582	2, 884	1, 139	537	297	227	353	151
1915.....	376, 218	8, 807	8, 028	3, 920	294	693	1, 127	465	5	429	183
1916.....	374, 186	6, 168	5, 273	2, 761	-----	890	837	340	-----	503	198
1917.....	543, 075	6, 176	5, 328	2, 895	-----	1, 056	687	304	-----	531	187
1918.....	655, 025	4, 641	3, 783	2, 387	-----	659	369	259	-----	584	250
1919.....	873, 580	5, 526	4, 497	2, 494	-----	774	558	281	73	809	203
1920.....	1, 381, 708	7, 087	5, 977	3, 445	421	596	617	75	210	876	217
1921.....	600, 186	5, 623	4, 775	1, 787	1, 152	591	558	261	166	555	169
1922.....	596, 379	6, 718	5, 476	1, 807	1, 617	820	469	342	186	895	201
1923.....	658, 983	5, 253	4, 314	1, 403	946	704	572	250	186	679	217
1924.....	903, 975	5, 899	5, 129	1, 695	1, 346	751	564	216	169	584	152
1925.....	1, 060, 980	8, 439	7, 332	2, 623	1, 892	951	756	290	224	850	207
1926.....	917, 720	8, 212	6, 713	2, 298	1, 690	944	745	315	203	1, 118	254
1927.....	866, 922	11, 560	9, 071	2, 673	2, 982	1, 089	845	364	298	1, 644	281
1928.....	820, 537	8, 120	6, 640	1, 465	2, 222	940	715	321	221	1, 007	246

1 5-year average, 1891-1895

## No. 676.—COFFEE: IMPORTS AND REEXPORTS

NOTE.—Imports and reexports in thousands of pounds.—Years ended June 30 through 1918, thereafter calendar years Imports represent imports from foreign countries and from territories and possessions into continental United States, and reexports represent exports from continental United States to foreign countries and outlying territories and possessions

Yearly average or year	Imports	Reex-ports	Net im-ports per capita, pounds	Average im- port price per pound, cents	Year	Imports	Reex-ports	Net im- ports per capita, pounds	Average im- port price per pound, cents
1830.....	51, 488	13, 125	2 99	8 3	1899.....	831, 827	30, 070	10 72	6 5
1840.....	94, 965	8, 698	5 04	8 8	1900.....	787, 992	39, 191	9 84	6 7
1850.....	145, 273	15, 481	5 58	7 6	1901.....	857, 018	45, 835	10 43	6 4
1851-1860.....	203, 190	14, 710	6 78	9 0	1902.....	1, 002, 344	35, 125	13 32	6 4
1861-1870.....	173, 290	8, 229	4 66	10 5	1903.....	923, 254	48, 849	10 80	6 6
1871-1880.....	331, 925	7, 911	7 19	14 7	1904.....	998, 677	35, 102	11 67	7 0
1881-1890.....	513, 089	24, 725	8 52	10 8	1905.....	1, 046, 028	37, 087	11 98	8 1
1891-1895.....	585, 270	8, 788	8 61	1 16 8	1906.....	883, 800	19, 133	9 72	8 6
1896-1900.....	761, 715	21, 819	10 07	8 9	1907.....	986, 596	11, 627	11 15	7 9
1901-1905.....	983, 464	40, 400	11 65	7 1	1908.....	892, 092	17, 115	9 82	7 6
1906-1910.....	931, 644	15, 326	10 29	7 9	1909.....	1, 051, 750	15, 188	11 43	7 5
1911-1915.....	952, 906	21, 493	9 65	11 5	1910.....	873, 984	13, 569	9 33	7 9
1916-1920 <sup>1</sup> .....	1, 227, 214	67, 382	11 20	-----	1911.....	878, 322	8, 371	9 29	10 3
1921-1925.....	1, 343, 579	40, 594	11 67	-----	1912.....	887, 748	7, 196	9 26	13 3
1881.....	455, 190	31, 913	8 21	12 5	1913.....	866, 054	7, 135	8 90	13 8
1882.....	459, 923	24, 343	8 25	10 0	1914.....	1, 006, 362	18, 811	10 14	11 1
1883.....	515, 879	37, 376	8 84	8 2	1915.....	1, 126, 042	70, 953	10 62	9 6
1884.....	534, 786	26, 153	9 18	9 3	1916.....	1, 203, 841	75, 818	11 20	9 6
1885.....	572, 600	33, 335	9 52	8 2	1917.....	1, 322, 059	57, 508	12 38	10 1
1886.....	564, 708	27, 496	9 27	7 6	1918.....	1, 145, 956	65, 598	10 43	9 0
1887.....	526, 109	25, 290	8 46	10 7	1918 (6 mos).....	436, 771	23, 515	-----	10 0
1888.....	423, 646	15, 083	6 75	14 0	1919.....	1, 341, 306	93, 021	11 89	19 5
1889.....	578, 397	17, 265	9 08	13 0	1920.....	1, 299, 743	54, 846	11 70	19 5
1890.....	499, 159	8, 997	7 77	16 0	1921.....	1, 345, 367	41, 821	12 02	10 7
1891.....	519, 528	8, 487	7 94	1 19 0	1922.....	1, 248, 938	35, 576	11 04	12 9
1892.....	640, 211	10, 539	9 59	1 20 0	1923.....	1, 412, 233	31, 899	12 36	13 5
1893.....	563, 469	12, 074	8 23	14 0	1924.....	1, 423, 758	39, 213	12 17	17 5
1894.....	550, 934	3, 865	8 01	16 4	1925.....	1, 287, 601	27, 833	10 92	22 3
1895.....	652, 209	8, 974	9 24	14 7	1926.....	1, 495, 517	26, 629	12 54	21 6
1896.....	580, 598	7, 926	8 08	14 6	1927.....	1, 444, 124	24, 029	11 97	18 5
1897.....	737, 646	13, 086	10 04	11 1	1928.....	1, 460, 871	19, 379	12 01	21 3
1898.....	870, 514	18, 823	11 59	7 5					

<sup>1</sup> Overvalued, due to depreciation of Brazilian paper milreis. <sup>2</sup> Average, July 1, 1915, to Dec 31, 1920.  
Source Tables 675 and 676: Bureau of Foreign and Domestic Commerce.

## No. 677.—TEA: NET IMPORTS

NOTE.—Quantity, except per capita, in thousands of pounds; value in thousands of dollars; per capita in pounds. Years ended June 30 through 1918; thereafter, calendar years. Beginning 1919, data relate to trade of continental United States only; see headnote, Table 676; prior to that time the small trade between the United States and noncontiguous territories is not included.

Yearly average or year	Quantity	Value	Per capita	Yearly average or year	Quantity	Value	Per capita	Year	Quantity	Value	Per capita
1830-----	95,199	1,532	0.54	1916-1920 <sup>1</sup>	106,988	22,528	1.08	1919-----	65,074	15,056	0.62
1840-----	6,873	4,067	.99	1921-1925----	92,202	30,829	.83	1920-----	87,801	23,408	.83
1850-----	16,883	3,982	1.21	1910-----	83,298	13,349	.90	1921-----	75,002	13,797	.69
1851-1860----	28,200	5,361	.76	1911-----	99,367	17,166	1.06	1922-----	93,888	23,067	.85
1861-1870----	21,028	8,969	.91	1912-----	100,895	18,057	1.06	1923-----	102,157	28,860	.91
1871-1880----	32,394	18,550	1.32	1913-----	93,911	17,295	.97	1924-----	90,567	26,608	.80
1881-1890----	59,536	15,071	1.34	1914-----	90,148	16,599	.92	1925-----	99,467	30,957	.86
1891-1895----	76,534	13,689	1.34	1915-----	92,174	16,763	.93	1926-----	94,512	30,855	.81
1896-1900----	89,675	11,357	1.17	1916-----	109,075	20,442	1.08	1927-----	87,896	27,691	.74
1901-1905----	86,217	13,849	1.18	1917-----	102,739	19,068	1.01	1928-----	88,843	26,815	.75
1906-1910----	95,814	15,211	1.05	1918-----	147,379	29,499	1.42				
1911-1915----	93,595	17,176	0.99	1918 <sup>2</sup> -----	76,866	16,461					

<sup>1</sup> Average for period July 1, 1915, to Dec 31, 1920.

<sup>2</sup> June 30 to Dec. 31, 1918.

## No. 678.—COCOA AND CHOCOLATE: IMPORTS

NOTE.—Quantity in thousands of pounds, value in thousands of dollars. For data covering additional and fiscal years see Statistical Abstract, 1924, Table 577

Yearly average or year <sup>1</sup>	Cocoa and chocolate, prepared or manufactured <sup>2</sup>		Year <sup>1</sup>	Cocoa and chocolate, prepared or manufactured <sup>2</sup>		Year <sup>1</sup>	Cocoa and chocolate, prepared or manufactured <sup>2</sup>	
	Quantity	Value		Quantity	Value		Quantity	Value
1871-1880 <sup>3</sup> ---	5,132	706	1905-----	77,383	9,484	1917-----	390,838	41,674
1881-1890----	13,504	1,891	1906-----	84,127	9,699	1918-----	360,015	37,972
1891-1900----	29,408	4,120	1907-----	97,060	14,579	1919-----	392,365	58,342
1901-1905----	63,600	8,260	1908-----	86,605	15,284	1920-----	344,986	54,811
1906-1910----	102,304	13,378	1909-----	32,661	15,562	1921-----	306,568	23,566
1911-1915----	161,473	19,002	1910-----	111,070	11,966	1922-----	347,010	32,571
1916-1920----	346,583	45,480	1911-----	140,970	15,261	1923-----	416,818	34,396
1921-1925----	367,907	32,019	1912-----	148,786	16,590	1924-----	382,029	30,152
1901-----	47,620	6,904	1913-----	143,510	18,177	1925-----	387,108	39,412
1902-----	52,879	7,054	1914-----	179,373	21,504	1926-----	433,117	44,227
1903-----	65,047	8,257	1915-----	194,734	23,478	1927-----	431,049	58,291
1904-----	75,071	9,601	1916-----	244,911	34,602	1928-----	388,635	49,216

<sup>1</sup> Fiscal years through 1915; calendar years thereafter

<sup>2</sup> Not including confectionery.

<sup>3</sup> Includes 3-year average for quantity of chocolate and 9-year average for its value.

## No. 679.—SILK AND SILK MANUFACTURES: FOREIGN TRADE

[Quantity in thousands of pounds; value, except average price per pound, in thousands of dollars]

Yearly average or year <sup>1</sup>	Unmanufactured silk, imports			Silk manufactures, value		Year <sup>1</sup>	Unmanufactured silk, imports			Silk manufactures, value	
	Quantity	Value	Average price per pound	Imports <sup>2</sup>	Exports		Quantity	Value	Average price per pound	Imports <sup>2</sup>	Exports
1871-1880 <sup>3</sup> ---	1,840	6,390	\$4.77	27,063	53	1911-----	26,666	74,998	\$2.81	28,864	1,569
1881-1890----	5,328	16,775	3.15	34,162	83	1912-----	26,585	69,542	2.62	24,561	2,009
1891-1900----	9,259	26,843	2.90	29,775	268	1913-----	32,102	84,915	2.65	27,696	2,401
1901-1905----	15,798	45,968	2.91	32,215	428	1914-----	34,546	100,930	2.92	35,458	2,316
1906-1910----	20,281	67,414	3.32	33,726	835	1915-----	31,053	83,131	2.68	25,050	2,754
1911-1915----	30,190	82,703	2.74	28,306	2,210	1916-----	40,872	149,785	3.66	37,110	6,363
1916-1920----	45,641	255,332	5.16	47,121	16,735	1917-----	43,428	189,753	4.37	39,763	8,608
1921-1925----	62,080	356,287	5.74	40,941	12,992	1918-----	48,721	194,199	3.99	28,569	17,982
1901-----	10,406	30,051	2.89	27,081	254	1919-----	55,522	341,887	6.16	54,746	23,903
1902-----	14,235	42,635	3.00	32,388	312	1920-----	39,660	301,038	7.59	75,419	26,821
1903-----	15,271	50,011	3.27	35,168	422	1921-----	52,332	254,723	5.06	48,276	9,672
1904-----	16,723	46,101	2.76	32,173	497	1922-----	58,467	371,629	6.36	37,413	11,824
1905-----	22,357	61,040	2.73	32,813	630	1923-----	61,954	401,655	6.48	44,597	11,136
1906-----	17,352	54,081	3.12	33,138	609	1924-----	60,603	335,041	5.53	37,699	14,148
1907-----	18,744	71,412	3.81	38,903	708	1925-----	76,795	408,386	5.32	36,719	18,182
1908-----	16,662	64,547	3.87	32,968	770	1926-----	77,666	402,676	5.18	40,570	17,788
1909-----	25,188	79,904	3.17	30,719	926	1927-----	86,344	399,088	4.62	42,234	15,298
1910-----	23,457	67,130	2.86	32,898	1,162	1928-----	88,263	373,331	4.23	41,298	18,648

<sup>1</sup> Fiscal years through 1915; calendar thereafter.

<sup>2</sup> Includes artificial silk prior to 1911.

<sup>3</sup> Raw silk.

Source of Tables 677, 678, and 679: Bureau of Foreign and Domestic Commerce.

## No. 680.—RUBBER: WORLD PRODUCTION AND UNITED STATES IMPORTS

NOTE.—For value of imports see Table 560. Tons are of 2,240 pounds

Year	World production			United States				Average price per pound, New York	
	Total	Plan- ta- tion	Total wild (mainly tropical America and Africa)	Imports <sup>1</sup>	Reex- ports	Retained		Fine para	Ribbed smoked sheet
						Amount	Share of world pro- duc- tion		
	<i>Long tons</i>	<i>Long tons</i>	<i>Long tons</i>	<i>Long tons</i>	<i>Long tons</i>	<i>Long tons</i>	<i>Per cent</i>	<i>Dollars</i>	<i>Dollars</i>
1905	59,494	174	59,320	28,637	1,616	27,021	45.4	1.243	-----
1906	62,581	577	62,004	30,816	1,676	28,640	45.8	1.213	-----
1907	67,170	1,157	66,013	30,649	1,835	28,817	42.9	1.063	-----
1908	66,566	1,796	64,770	34,058	1,655	32,403	48.7	-----	-----
1909	73,756	3,386	70,370	41,950	2,156	39,794	54.0	1.481	-----
1910	93,950	10,916	83,034	45,003	2,749	42,254	45.0	1.908	2.066
1911	94,055	17,501	159,588	44,424	2,523	41,901	44.6	1.110	1.413
1912	114,276	33,306	80,970	58,435	2,456	55,979	49.0	1.052	1.216
1913	120,123	53,644	66,479	53,906	1,881	52,025	43.3	.807	.820
1914	123,173	74,587	48,586	64,884	2,613	62,266	50.6	.616	.653
1915	170,826	116,370	54,456	101,093	2,082	99,011	58.0	.557	.659
1916	214,089	161,842	52,247	121,709	4,098	117,611	54.9	.669	.725
1917	278,140	221,452	56,688	183,255	4,000	179,255	64.4	.648	.722
1918	219,684	181,061	38,623	146,132	2,746	143,386	65.3	.549	.602
1919	399,731	348,990	50,741	240,689	2,282	238,407	59.6	.483	.487
1920	342,033	305,106	36,927	253,680	4,160	249,520	73.0	.333	.363
1921	301,512	277,516	23,996	185,452	5,716	179,736	59.6	.182	.163
1922	406,394	379,520	26,874	301,203	4,809	296,394	72.9	.183	.175
1923	408,641	380,058	28,583	310,299	8,772	301,527	73.8	.248	.295
1924	425,991	394,037	31,954	329,322	10,309	319,013	74.9	.212	.262
1925	528,485	488,825	39,660	400,423	14,827	385,596	73.1	.569	.725
1926	623,265	582,163	41,102	417,643	17,671	399,972	64.0	.380	.487
1927	612,564	568,133	44,431	431,246	27,775	403,471	66.0	.268	.381
1928	638,000	626,181	11,819	439,732	32,159	407,573	61.9	.186	.226

<sup>1</sup> Includes guayule<sup>2</sup> Preliminary estimates.

Source: Bureau of Foreign and Domestic Commerce (compiled from various original sources); prices, Bureau of Labor Statistics, Department of Labor.

## No. 681.—SPRING AND WINTER WHEAT: ACREAGE AND PRODUCTION

[Acreage in thousands and production in thousands of bushels]

Year	Winter wheat				Spring wheat		
	Acreage		Produc- tion	Yield per acre (bushels)	Acreage	Produc- tion	Yield per acre (bushels)
	Sown	Har- vested					
1911	32,648	29,162	430,656	14.8	20,381	190,682	9.4
1912	33,229	26,571	399,919	15.1	19,243	330,348	17.2
1913	33,274	31,699	523,561	16.5	18,485	239,819	13.0
1914	37,158	36,008	684,990	19.0	17,533	206,027	11.8
1915	42,431	41,308	673,947	16.3	19,161	351,854	18.4
1916	39,245	34,709	490,553	13.8	17,607	155,765	8.8
1917	38,359	27,257	412,901	15.1	17,832	223,754	12.5
1918	43,126	37,130	565,099	15.2	22,051	356,339	16.2
1919	51,483	50,494	760,377	15.1	25,200	207,602	8.2
1920	44,861	40,016	610,597	15.3	21,127	222,430	10.5
1921	45,625	43,414	600,316	13.8	20,282	214,589	10.6
1922	47,930	42,358	586,878	13.8	19,959	280,720	14.1
1923	46,091	39,508	571,777	14.5	20,151	225,617	11.2
1924	38,916	35,656	592,259	16.6	16,879	272,169	16.1
1925	39,951	31,346	402,070	12.8	21,021	274,695	13.1
1926	39,887	36,987	627,433	17.0	19,372	203,948	10.5
1927	43,373	37,723	552,747	14.7	21,061	325,627	15.5
1928 (preliminary)	47,280	36,179	578,964	16.0	21,545	323,785	15.0

Source: Bureau of Agricultural Economics, Department of Agriculture.

**No. 682.—WHEAT: SUPPLY AND DISTRIBUTION AND PER CAPITA DISAPPEAR-  
ANCE FOR FOOD, ETC., IN CONTINENTAL UNITED STATES**

[All quantities, except per capita, in thousands of bushels]

Item	Year beginning July 1—						
	1899- 1908, average	1909- 1913, average	1914- 1920, average	1921- 1925, average	1926	1927	1928
Supply, total.....	791,629	782,287	951,935	923,866	952,374	1,026,003	1,080,679
On hand July 1:							
Stocks on farms.....	46,423	28,872	32,631	37,059	20,973	27,215	23,729
Stocks in country mills and ele- vators <sup>1</sup> .....	27,000	29,000	26,997	30,991	29,501	21,776	19,277
Commercial visible (Bradstreet's) Stocks of flour (in terms of wheat) <sup>1</sup> .....	31,817	24,168	19,290	25,519	16,484	25,516	42,208
In merchant mills and elevators.....	7,709	8,305	8,606	8,678	9,757	9,076	9,019
In transit.....					24,505	37,038	31,920
New crop.....	677,927	690,108	844,605	804,148	831,040	878,374	902,191
Imports (flour included).....	753	1,834	19,806	17,473	13,264	15,734	21,442
Accounted-for distribution, total.....	331,408	280,519	437,581	394,575	443,698	441,026	510,872
Exports (flour included).....	156,435	107,103	257,030	207,237	219,160	206,259	163,670
Reexports.....	399	195	562	221	98	53	55
Shipments (flour included) to Alaska, Hawaii, and Porto Rico.....	12,034	2,549	2,546	2,836	3,082	2,690	72
Estimated seed requirements.....	70,444	72,326	88,312	86,849	88,919	94,978	88,457
Carry over at end of year:							
On farms.....	40,654	32,485	36,127	29,913	27,215	23,729	44,741
In country mills and elevators <sup>1</sup> .....	25,400	31,600	26,449	31,457	21,776	19,277	40,136
Commercial visible (Bradstreet's) Flour (in terms of wheat).....	28,668	25,326	18,265	26,822	25,516	42,208	95,684
In merchant mills and elevators.....	7,374	8,935	8,290	9,240	9,076	9,019	13,541
In transit.....					37,038	31,920	48,279
In transit.....					11,274	10,893	16,237
Disappearance for food, feed, and loss.....	480,221	501,768	514,354	529,291	509,720	584,977	549,807
Per capita (bushels).....	5.6	5.3	5.0	4.7	4.3	4.9	4.6

<sup>1</sup> From Chicago Daily Trade Bulletin. Stocks in country mills and elevators, from 1899-1918, are stocks in second hands less visible supply on July 1, as given by Chicago Daily Trade Bulletin.

<sup>2</sup> 7-year average

Source Compiled from various sources by the Bureau of Agricultural Economics, Department of Agriculture

**No. 683.—VISIBLE SUPPLY OF GRAIN IN UNITED STATES: AS REPORTED ON  
SATURDAY NEAREST THE FIRST OF EACH MONTH**

[All figures in thousands of bushels]

**WHEAT<sup>1</sup>**

Year beginning July 1—	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb.	Mar.	Apr.	May	June
1909-1913, avg..	24,168	28,569	37,458	48,202	56,838	63,908	66,229	62,228	58,419	53,802	43,857	34,183
1914-1920, avg..	19,290	24,822	38,946	55,865	69,909	76,250	75,530	69,586	60,014	49,475	35,591	27,728
1921-1925, avg..	25,519	34,513	52,612	64,541	66,786	67,445	68,605	62,988	59,746	52,365	43,975	35,777
1924.....	38,597	46,193	79,700	92,353	100,712	108,997	99,121	84,476	76,437	62,766	49,529	38,328
1925.....	29,285	34,041	39,800	56,639	52,394	52,686	59,244	52,730	48,105	38,173	33,798	23,170
1926.....	16,486	34,575	72,884	84,724	81,175	78,910	70,811	62,317	61,271	53,827	42,402	31,115
1927.....	25,516	37,533	71,908	88,755	98,675	100,013	94,336	83,720	77,949	73,220	66,184	52,460
1928.....	42,208	66,762	96,798	118,327	143,003	145,234	146,813	133,759	130,034	123,339	116,559	99,966

**CORN<sup>2</sup>**

Year beginning Nov. 1—	Nov.	Dec.	Jan.	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct.
1909-1913, avg..	3,352	2,088	7,342	10,406	15,165	16,233	8,358	4,656	7,980	4,583	3,566	5,444
1914-1920, avg..	3,763	2,953	6,909	12,521	17,069	18,949	13,827	9,059	8,509	6,140	4,048	5,245
1921-1925, avg..	7,679	7,861	17,054	23,406	31,478	34,183	26,334	17,732	16,882	11,558	8,053	8,853
1924.....	8,097	7,563	18,573	27,571	32,292	32,727	23,379	17,140	13,094	6,093	6,524	5,470
1925.....	1,790	2,461	17,861	28,092	33,878	36,485	32,408	25,453	30,333	24,930	19,771	17,881
1926.....	22,258	28,699	34,712	38,792	45,103	47,244	36,621	29,961	34,427	30,205	22,312	23,687
1927.....	20,574	19,216	27,034	31,849	40,998	43,865	33,556	25,496	16,008	13,267	9,516	6,791
1928.....	2,030	6,419	17,146	26,042	33,302	34,150	25,687	14,259	13,054	8,751	5,417	-----

<sup>1</sup> Bradstreet's

<sup>2</sup> Chicago Board of Trade.

**No. 683.—VISIBLE SUPPLY OF GRAIN IN UNITED STATES: AS REPORTED ON SATURDAY NEAREST THE FIRST OF EACH MONTH—Continued**

OATS<sup>1</sup>

Year beginning Aug 1—	Aug	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
1909-1913, avg--	7, 185	13, 460	18, 525	19, 024	17, 969	16, 286	14, 857	14, 521	13, 869	10, 748	7, 866	7, 894
1914-1920, avg--	7, 879	14, 984	23, 791	26, 613	28, 498	28, 660	26, 513	25, 203	23, 404	20, 717	17, 141	13, 698
1921-1926, avg--	21, 818	34, 206	47, 372	51, 211	50, 468	51, 075	50, 611	49, 063	43, 706	36, 706	28, 498	25, 539
1924-----	3, 086	11, 403	52, 715	66, 564	67, 265	72, 128	73, 570	72, 386	61, 104	48, 082	35, 331	33, 263
1925-----	26, 298	50, 706	65, 818	64, 926	64, 251	63, 187	63, 076	58, 974	52, 023	47, 025	38, 976	37, 900
1926-----	33, 772	43, 671	48, 450	48, 097	48, 283	44, 927	45, 422	43, 454	37, 145	29, 573	20, 502	17, 790
1927-----	12, 001	21, 501	24, 831	23, 857	23, 252	21, 907	20, 350	19, 791	15, 746	11, 168	7, 086	3, 225
1928-----	2, 377	13, 376	15, 193	14, 472	13, 295	13, 968	13, 611	14, 898	12, 609	10, 276	9, 280	7, 430

<sup>1</sup> Chicago Board of Trade

Source: Bureau of Agricultural Economics, Department of Agriculture.

**No. 684.—EXPORTS (EXCLUDING REEXPORTS) AND IMPORTS OF WHEAT, CORN, RICE, TOBACCO, AND FLAXSEED**

Yearly average or year ended June 30—	Exports <sup>1</sup>			Im-ports—wheat and flour <sup>2</sup>	Year ended June 30—	Exports <sup>1</sup>			Im-ports—wheat and flour <sup>2</sup>
	Wheat (grain)	Wheat flour	Wheat and flour <sup>2</sup>			Wheat (grain)	Wheat flour	Wheat and flour <sup>2</sup>	
	<i>1,000 bushels</i>	<i>1,000 barrels</i>	<i>1,000 bushels</i>			<i>1,000 bushels</i>	<i>1,000 barrels</i>	<i>1,000 bushels</i>	
1852-1856-----	4, 715	2, 892	19, 173	4, 178	1914-----	92, 394	11, 821	145, 590	2, 384
1857-1861-----	12, 378	3, 818	28, 970	2, 617	1915-----	259, 643	16, 183	332, 465	715
1862-1866-----	22, 530	3, 531	40, 184	-----	1916-----	173, 274	15, 521	243, 117	7, 188
1867-1871-----	22, 107	2, 585	35, 032	1, 818	1917-----	149, 831	11, 943	208, 574	24, 925
1872-1876-----	48, 958	3, 416	66, 037	1, 680	1918-----	34, 119	21, 880	132, 579	31, 215
1877-1881-----	107, 781	5, 376	133, 263	906	1919-----	178, 583	24, 182	287, 402	11, 289
1882-1886-----	82, 884	8, 620	121, 675	517	1920-----	122, 431	21, 652	219, 865	5, 496
1887-1891-----	64, 739	11, 287	115, 529	352	1921-----	293, 268	16, 180	366, 077	57, 398
1892-1896-----	99, 914	15, 713	170, 624	1, 634	1922-----	208, 321	15, 797	279, 407	17, 251
1897-1901-----	120, 247	17, 151	197, 427	1, 280	1923-----	154, 951	14, 883	221, 923	19, 945
1902-1906-----	70, 527	15, 444	140, 026	993	1924-----	78, 793	17, 253	156, 430	28, 045
1907-1911-----	62, 855	11, 841	116, 138	706	1925-----	195, 490	13, 896	258, 023	6, 189
1912-1916-----	129, 415	13, 185	188, 748	2, 996	1926-----	63, 189	9, 542	108, 086	15, 690
1917-1921-----	155, 646	19, 167	241, 899	26, 064	1927-----	156, 250	13, 385	219, 100	13, 263
1922-1926-----	140, 129	14, 274	204, 764	17, 424	1928-----	145, 999	12, 921	206, 728	15, 793

  

Yearly average or year ended June 30—	Corn <sup>3</sup>		Rice <sup>4</sup>		Flaxseed		Unmanufactured tobacco	
	Exports <sup>1</sup>	Imports	Exports <sup>1</sup>	Imports	Exports <sup>1</sup>	Imports	Exports <sup>1</sup>	Imports
	<i>1,000 bushels</i>	<i>1,000 bushels</i>	<i>1,000 pounds</i>	<i>1,000 pounds</i>	<i>1,000 bushels</i>	<i>1,000 bushels</i>	<i>1,000 pounds</i>	<i>1,000 pounds</i>
1852-1856-----	7, 123	-----	56, 515	-----	11	1, 133	140, 184	5, 044
1857-1861-----	6, 558	-----	65, 732	-----	7	-----	167, 711	5, 154
1862-1866-----	12, 060	-----	2, 258	70, 893	16	1, 037	140, 208	-----
1867-1871-----	9, 924	75	1, 857	52, 954	(5)	-----	194, 754	5, 631
1872-1876-----	38, 561	57	391	72, 536	(5)	2, 915	241, 848	8, 886
1877-1881-----	88, 190	42	602	62, 615	(5)	1, 224	266, 315	7, 871
1882-1886-----	49, 992	24	551	99, 871	(5)	1, 541	237, 942	15, 872
1887-1891-----	54, 606	15	3, 210	156, 859	7 66	1, 831	269, 248	25, 640
1892-1896-----	68, 980	8	10, 278	160, 808	1, 516	1, 181	281, 746	25, 671
1897-1901-----	192, 531	4	18, 407	165, 232	2, 660	404	304, 402	16, 958
1902-1906-----	74, 615	20	45, 978	150, 914	2, 950	234	325, 539	33, 805
1907-1911-----	56, 568	92	27, 195	215, 892	2, 313	3, 249	334, 396	42, 813
1912-1916-----	38, 774	5, 686	60, 043	250, 775	67	9, 227	408, 006	55, 556
1917-1921-----	45, 296	4, 950	299, 021	262, 514	13	14, 750	496, 924	74, 595
1922-1926-----	66, 759	1, 149	300, 030	74, 178	(5)	18, 198	496, 676	68, 470
1922-----	179, 490	125	741, 509	73, 620	2	13, 632	463, 389	65, 225
1923-----	96, 596	138	370, 670	69, 536	(5)	25, 006	454, 364	75, 786
1924-----	23, 135	228	227, 757	38, 210	(5)	19, 577	597, 630	54, 497
1925-----	9, 791	4, 617	112, 037	57, 677	(5)	13, 419	430, 702	76, 870
1926-----	24, 781	635	48, 175	131, 848	(5)	19, 354	537, 239	69, 973
1927-----	19, 819	1, 098	304, 358	71, 053	(5)	24, 224	516, 401	92, 983
1928-----	19, 410	5, 463	309, 808	44, 102	(5)	18, 112	489, 982	81, 105

<sup>1</sup> Excluding reexports. <sup>2</sup> Flour included in terms of grain. <sup>3</sup> Including meal in terms of grain.<sup>4</sup> Includes flour, meal, etc. <sup>5</sup> Less than 500 bushels <sup>6</sup> Not separately reported. <sup>7</sup> 3-year average.

Source: Bureau of Foreign and Domestic Commerce; for data covering additional individual years, see Statistical Abstract, 1924, Table 577.

**No. 685.—YEARLY WEIGHTED AVERAGE FARM PRICES OF SPECIFIED CROPS:  
BY CROP YEARS, FOR THE UNITED STATES AS A WHOLE**

NOTE.—Prices for hays and cottonseed, are in dollars per ton; cotton and peanuts in cents per pound; timothy, clover, and alfalfa seeds in dollars per bushel, and for all other products, in cents per bushel. Crop year ends in May for apples; in July for oats, barley, cotton, cottonseed, and timothy seed, in August for flaxseed, buckwheat, clover seed, in October for corn and peanuts; and in June for other crops named. For index numbers of prices of farm products by great groups see Table 599

Crop year ending—	Wheat	Corn	Oats	Barley	Rye	Buck- wheat	Flaxseed
1910.....	100 7	63.2	43.2	55 6	74 6	72 1	148 6
1911.....	91 7	53 5	36.2	60 8	73 4	67 5	229 8
1912.....	88 3	68 8	46 1	81 9	81 0	75 4	195 8
1913.....	83.3	56 7	34 9	52 7	68 7	68 3	127.4
1914.....	79.3	71.8	38 9	53.0	62.9	76.6	123.9
1915.....	99.4	71 4	44 9	54 8	83 3	81 1	131 6
1916.....	98.2	69 6	39 3	53 8	85 0	81.5	169 6
1917.....	144.4	119 0	51 4	83 4	113 0	126.5	233.8
1918.....	205 8	148 1	72 1	122 5	176 4	167.1	315 9
1919.....	206.3	153 1	70 1	100 0	152 1	164.7	374 2
1920.....	218 6	151 5	80.3	124.9	146.9	159.2	427.0
1921.....	182 9	62 1	51 1	70 7	148 2	126 8	217.6
1922.....	104 4	54 3	33 4	48 4	86.9	89 1	171 0
1923.....	98 0	76 7	39 0	51 8	68 1	89 9	209.5
1924.....	92 4	84 0	42 6	56 8	59 4	96.3	212 3
1925.....	127 8	105 8	48 3	77 4	96.3	108 6	220 7
1926.....	145 9	71.0	39 0	59 2	83.1	87.5	224.6
1927.....	123 8	73 7	41 1	59 4	84 2	87 0	197.4
1928.....	120 2	85 8	49 6	72 6	86 8	87.6	189.1

Crop year ending—	Potatoes	Sweet potatoes	Apples	Cotton	Cotton- seed	Peanuts	All hay (loose)
1910.....	57 9	( <sup>1</sup> )	( <sup>1</sup> )	13.6	( <sup>1</sup> )	( <sup>1</sup> )	10 58
1911.....	61 3	78 7	88.1	14 0	25 82	4.6	11 54
1912.....	99 6	92 2	76 6	9.6	17 08	4.4	14.36
1913.....	55 6	85 6	66.8	11.5	19.10	4.6	11.17
1914.....	70 6	84.0	93 0	12.5	22.39	4.6	11.49
1915.....	58 0	84 6	62 7	7.4	16 50	4.4	10.92
1916.....	70.8	75 4	71.0	11.2	32 65	4.3	10.34
1917.....	166 3	92 9	90 7	17 3	49 13	4.8	11.21
1918.....	122 5	122 3	113.6	27.1	66.15	7.1	16.60
1919.....	125 6	150 0	137 5	28 8	65 23	6.5	19 88
1920.....	223.8	161.7	186 1	35 2	67.27	9.2	21.34
1921.....	131 5	144 8	133 8	15 8	22.95	4.7	16.51
1922.....	121 3	110 9	195 2	17 0	29.72	3 7	11.83
1923.....	73 9	97 4	109.4	22 8	34.70	5 5	11.68
1924.....	94 2	121 7	117.4	28 7	42.23	6 5	12.93
1925.....	76 5	152 4	122 1	22 9	34 08	5.7	12.76
1926.....	183.5	165 9	127.0	19.6	30.82	4.7	12.83
1927.....	140 8	120 3	88 3	12 5	21 63	4 8	13.23
1928.....	108 4	106 5	141 7	20 2	35 93	5 0	10.57

Crop year ending—	Prarie hay	Timothy hay	Clover hay	Alfalfa hay	Timothy seed	Clover seed	Alfalfa seed
1915.....	7 69	13 87	12 83	9 12	2 49	8.41	7.52
1916.....	7 13	13 09	11 29	9 39	2 89	9 98	8 16
1917.....	8 61	12 33	11 33	12 76	2 42	9 54	8 76
1918.....	13 31	18 67	17 21	18 42	3 50	14.48	9 66
1919.....	16.03	22 66	20 93	20 35	4 19	21.01	10 40
1920.....	16 78	25.13	23 69	22 70	4 98	28.34	16.97
1921.....	10 94	20 64	19 48	15.96	3 29	11.81	11 74
1922.....	7.62	14 82	14 15	10 53	2 64	11.14	8.22
1923.....	8.79	14 18	13 03	12 82	2.60	10.71	9.36
1924.....	8.92	16.53	15 14	13.54	3 19	12 38	10.63
1925.....	8.70	14.30	13 43	13 31	3 11	15.35	10 62
1926.....	9.36	15.40	14.52	13.52	3.33	15.87	9 99
1927.....	10.87	15 42	15 06	13 57	2 61	19 06	9.45
1928.....	7.64	11.64	12 15	11.96	1.77	16.12	9.88

<sup>1</sup> Not available

Source: Bureau of Agricultural Economics, Department of Agriculture.

**No. 686.—GRAIN PRICES: WEIGHTED AVERAGE MARKET PRICE PER BUSHEL OF REPORTED CASH SALES**

Yearly average or crop year ending—	Wheat, July-June			Corn, Nov-Oct		Oats, Aug-July		Bar- ley, Aug- July	Rye, July- June	Flax- seed, Sept- Aug. <sup>1</sup>	Kafir, Nov- Oct. <sup>2</sup>
	No. 1, North- ern, Min- neapo- lis	No 2, Hard Win- ter, Kan- sas City	No 2, Red Win- ter, Chi- cago	No 3, Yel- low, Chi- cago	No. 3, Yel- low, Kan- sas City	No 3, White, Chi- cago	No. 3, White, Min- neapo- lis	No. 2, Min- neapo- lis	No. 2, Chi- cago	No 1, Min- neapo- lis	No. 2, White, Kan- sas City
1910-1914.....	\$0.99	\$0.95	\$0.99	\$0.61	\$0.60	\$0.40	\$0.38	\$0.64	\$0.76	\$1.92	\$1.34
1915-1921.....	1.90	1.85	1.83	1.15	1.12	.60	.58	1.02	1.52	3.03	2.17
1922-1926.....	1.39	1.27	1.33	.79	.78	.42	.38	.65	.94	2.47	1.52
1913.....	.87	.88	1.03	.53	.55	.33	.33	.48	.65	1.38	1.06
1914.....	.83	.84	.88	.70	.67	.40	.38	.51	.64	1.52	1.74
1915.....	1.20	1.05	1.08	.70	.72	.50	.48	.65	1.05	1.70	1.17
1916.....	1.09	1.19	1.13	.79	.69	.41	.38	.63	.99	2.04	1.19
1917.....	1.76	1.71	1.68	1.11	1.06	.54	.52	1.17	1.54	2.91	3.24
1918.....	2.20	2.52	2.25	1.63	1.63	.71	.71	1.49	2.11	3.78	3.28
1919.....	2.25	2.19	2.22	1.62	1.56	.70	.66	1.00	1.61	4.19	2.86
1920.....	2.72	2.42	2.24	1.59	1.60	.80	.80	1.43	1.70	4.52	2.41
1921.....	2.07	1.83	2.23	.62	.59	.51	.48	.74	1.62	2.09	1.46
1922.....	1.43	1.20	1.25	.55	.54	.35	.32	.55	.97	2.19	1.36
1923.....	1.20	1.13	1.14	.73	.74	.41	.36	.58	.81	2.58	1.63
1924.....	1.17	1.05	1.02	.88	.78	.45	.40	.63	.70	2.44	1.51
1925.....	1.56	1.35	1.58	1.06	1.12	.50	.47	.84	1.25	2.63	1.81
1926.....	1.61	1.63	1.64	.75	.74	.41	.37	.67	.96	2.52	1.30
1927.....	1.46	1.35	1.38	.87	.88	.43	.42	.71	1.01	2.24	1.20
1928.....	1.36	1.35	1.40	1.01	.85	.55	.50	.84	1.06	2.20	1.46

<sup>1</sup> Average closing price through December, 1920.<sup>2</sup> Price per 100 pounds.

Source: Bureau of Agricultural Economics, Department of Agriculture.

**No. 687.—GRAIN RECEIVED AT SIX ATLANTIC PORTS**

NOTE.—Data are for calendar years. Total receipts by ports include flour, meal, and malt reduced to grain equivalent. Receipts at New York, Boston, Philadelphia, and Baltimore include shipments from the West to foreign countries through these ports on through bills of lading. Receipts at Baltimore include flour ground by city millers, and therefore duplicate an equivalent quantity of wheat received in grain

	1910	1915	1920	1925	1926	1927	1928
<b>TOTALS BY PORTS</b>							
New York, total.....	1,000 bu. 93,320	1,000 bu. 220,667	1,000 bu. 145,534	1,000 bu. 189,162	1,000 bu. 173,062	1,000 bu. 166,224	1,000 bu. 166,692
By canal via river.....	10,168	2,504	4,139	32,767	28,899	29,668	39,138
Coastwise and river.....	410	7,120	5,966	9	40	631	52
By rail.....	82,742	211,044	135,429	156,386	144,123	135,925	127,552
Boston.....	22,402	28,097	13,099	11,911	13,264	13,694	14,430
Philadelphia.....	28,736	69,772	45,148	55,933	34,606	34,154	25,284
Baltimore.....	32,272	105,856	74,260	35,552	33,775	35,459	35,459
New Orleans.....	16,213	56,774	72,976	32,039	25,036	25,875	28,872
Montreal, Canada.....	44,178	68,185	67,044	179,959	170,242	219,173	247,377
<b>COMMODITY</b>							
Flour.....1,000 bbls..	16,841	23,279	17,016	23,801	23,374	22,928	24,496
Corn meal.....do.....	1,039	941	77	75	154	237	112
Wheat.....1,000 bu..	62,944	260,719	220,296	238,631	232,136	262,630	270,513
Corn.....do.....	42,193	45,434	17,916	13,220	12,191	9,101	13,171
Oats.....do.....	47,181	104,554	34,629	76,401	41,707	25,115	35,416
Barley.....do.....	3,929	16,195	16,600	45,191	40,335	54,186	65,831
Rye.....do.....	934	13,928	51,742	23,709	17,767	39,893	18,555
Total grain.....do.....	157,181	440,829	341,183	397,152	344,186	390,926	408,586
Flour and meal <sup>1</sup> .....do.....	79,940	108,522	76,878	107,404	105,798	103,653	110,413
<b>Grand total.....do.....</b>	<b>237,122</b>	<b>549,351</b>	<b>418,061</b>	<b>504,556</b>	<b>449,984</b>	<b>494,579</b>	<b>518,999</b>

<sup>1</sup> Grain equivalent.

Source: New York Produce Exchange.

## No. 688.—GRAIN RECEIPTS AT PRIMARY MARKETS, BY CROP YEARS

[All figures in thousands of bushels]

Yearly average or year end- ed—	Total	Chi- cago	Mil- wau- kee	Minne- apolis	Du- luth	St. Louis	Toledo	De- troit	Kan- sas City	Peoria	Omaha	Indian- apolis
WHEAT												
June 30:												
1910-1914.....	279,257	37,111	8,750	102,067	52,048	24,713	5,203	1,821	35,756	1,525	15,892	1,211
1915-1921.....	385,102	60,469	9,655	119,090	51,044	38,228	6,628	2,121	67,515	2,232	22,621	4,600
1922-1926.....	388,647	49,959	5,903	112,209	66,874	37,295	10,801	1,636	74,144	2,601	22,541	4,685
1923.....	420,166	51,660	3,681	133,830	65,541	40,605	10,472	1,797	77,684	4,355	25,356	5,196
1924.....	333,388	49,804	2,307	105,958	38,201	33,119	15,401	1,884	60,516	2,221	17,896	6,081
1925.....	478,555	71,009	8,934	104,037	111,194	44,047	12,434	1,915	89,444	2,095	29,120	4,336
1926.....	325,490	25,776	4,919	111,877	70,210	29,697	8,945	1,066	52,502	1,769	15,023	3,766
1927.....	359,435	39,062	6,807	89,148	53,061	33,342	14,715	2,677	92,740	1,314	21,486	5,023
1928.....	462,709	45,851	5,662	125,615	118,855	34,167	14,171	2,281	77,775	1,336	31,948	5,048
CORN												
Oct 31.												
1910-1914.....	214,366	105,459	10,251	7,581	792	22,316	4,383	2,957	19,052	16,710	-----	-----
1915-1921.....	246,387	101,633	14,788	10,643	-----	22,286	3,025	3,043	18,263	25,349	26,731	19,469
1922-1926.....	266,015	115,372	14,538	13,213	5,061	30,749	3,774	1,423	18,486	22,221	22,608	18,559
1923.....	252,124	115,900	15,280	7,581	688	29,856	3,149	1,657	15,468	21,157	22,780	18,817
1924.....	275,082	101,108	17,083	18,436	9,570	39,215	4,090	1,683	21,136	17,730	27,495	17,636
1925.....	202,225	80,698	7,180	14,310	795	23,116	2,972	410	21,448	20,961	13,138	17,199
1926.....	232,484	92,283	7,519	9,867	142	27,751	4,665	610	18,034	27,139	20,396	18,073
1927.....	220,778	91,869	11,000	11,261	177	21,005	3,940	1,489	12,453	26,098	21,836	19,650
1928.....	293,627	104,975	14,471	9,378	505	35,261	1,480	1,018	46,807	25,056	32,859	21,817
OATS												
July 31.												
1910-1914.....	194,643	100,873	13,978	17,320	5,938	21,439	3,507	3,131	7,298	10,252	-----	-----
1915-1921.....	277,426	121,664	30,007	31,750	3,963	27,613	5,583	4,390	10,295	12,090	15,837	14,234
1922-1926.....	226,219	71,431	19,646	35,224	12,494	31,186	5,880	2,376	9,834	12,833	14,494	10,841
1923.....	222,680	84,451	21,057	24,870	1,372	32,220	3,786	3,444	10,568	15,555	14,772	10,585
1924.....	220,631	69,516	19,729	29,069	5,068	35,001	4,248	3,083	11,701	13,419	18,144	11,653
1925.....	262,501	74,690	20,233	53,533	23,165	34,211	8,848	1,942	8,198	11,131	15,918	10,632
1926.....	207,817	50,669	13,970	36,342	26,798	28,549	7,814	1,127	11,443	9,850	12,972	8,283
1927.....	143,960	49,420	14,826	18,205	2,360	21,076	8,781	1,352	3,270	8,954	6,628	9,288
1928.....	148,485	53,591	10,411	27,138	1,145	19,351	4,507	1,389	4,226	9,195	8,844	8,688

Source: Bureau of Agricultural Economics, Department of Agriculture. Compiled from Chicago Daily Trade Bulletin and the annual reports of the Chicago Board of Trade

## No. 689.—FREIGHT RATES ON WHEAT FROM CHICAGO TO NEW YORK

NOTE.—In cents per bushel. For earlier years see Statistical Abstract, 1925, p. 679

Calendar year	By lake and canal	By lake and rail	By all rail <sup>1</sup>	Calendar year	By lake and canal	By lake and rail	By all rail <sup>1</sup>
1891.....	5.96	8.53	15.00	1910.....	5.13	6.57	9.60
1892.....	5.61	7.55	14.23	1911.....	5.35	5.23	9.69
1893.....	6.33	8.44	14.70	1912.....	5.57	6.17	9.60
1894.....	4.44	7.00	12.88	1913.....	5.74	7.01	9.60
1895.....	4.11	6.95	12.17	1914.....	5.31	6.54	9.60
1896.....	5.38	7.32	12.00	1915.....	6.08	7.48	10.08
1897.....	4.35	7.37	12.32	1916.....	7.95	9.55	10.08
1898.....	4.42	4.96	11.65	1917.....	8.72	9.99	10.08
1899.....	5.65	6.63	11.13	1918.....	12.53	12.27	12.90
1900.....	4.42	5.05	9.98	1919.....	10.94	11.60	14.70
1901.....	5.14	5.57	9.92	1920.....	14.70	15.32	16.68
1902.....	5.25	5.78	10.60	1921.....	10.29	10.91	20.10
1903.....	5.44	6.17	11.33	1922.....	11.63	11.93	19.65
1904.....	4.71	5.02	11.11	1923.....	10.94	12.43	18.00
1905.....	5.51	6.44	10.20	1924.....	8.67	10.92	18.00
1906.....	5.94	6.48	10.50	1925.....	7.24	10.89	18.00
1907.....	6.68	6.93	11.30	1926.....	8.08	12.04	18.00
1908.....	6.00	6.33	11.70	1927.....	7.16	11.14	18.00
1909.....	5.35	6.88	11.70	1928.....	8.40	11.36	18.00

<sup>1</sup> Rates beginning with 1900 represent wheat for domestic consumption, lower rates applying on grain for export

Source: New York Produce Exchange.



# No. 690.—FREIGHT RATES ON WHEAT FROM BUFFALO TO NEW YORK BY CANAL

Calendar year	Average rate	Calendar year	Average rate	Calendar year	Average rate	Calendar year	Average rate
	<i>Cents per bushel</i>		<i>Cents per bushel</i>		<i>Cents per bushel</i>		<i>Cents per bushel</i>
1891.....	3.5	1901.....	3.5	1911.....	4.3	1921.....	7.4
1892.....	3.5	1902.....	3.8	1912.....	4.4	1922.....	10.4
1893.....	4.6	1903.....	4.0	1913.....	4.6	1923.....	7.1
1894.....	3.2	1904.....	3.2	1914.....	4.3	1924.....	6.8
1895.....	2.2	1905.....	3.9	1915.....	4.6	1925.....	5.0
1896.....	3.7	1906.....	4.2	1916.....	5.0	1926.....	5.1
1897.....	2.8	1907.....	5.0	1917.....	4.4	1927.....	5.0
1898.....	2.8	1908.....	5.0	1918.....	9.3	1928.....	6.0
1899.....	3.0	1909.....	3.9	1919.....	8.2		
1900.....	2.5	1910.....	4.0	1920.....	10.3		

Source: Secretary of the Buffalo Chamber of Commerce.

# No. 691.—FREIGHT RATES ON GRAIN, FLOUR, AND PROVISIONS, CHICAGO TO EUROPEAN PORTS

NOTE.—Rates cover all-rail transportation to New York and steamer to foreign ports. Rail rates on grain and flour are reshipping rates. Steamer rates are berth rates. Owing to the war complete statements of freight averages for 1914 to 1916 are impossible and for 1917, 1918, and 1919 no figures are available.

[Rates in cents per 100 pounds]

Destination	1900	1905	1910	1913	1921	1922	1923	1924	1925	1926	1927	1928
<b>Grain:</b>												
Liverpool <sup>1</sup> .....	29.49	19.16	18.15	23.39	48.17	34.06	32.65	34.87	33.8	37.17	33.89	32.32
Glasgow <sup>1</sup> .....	30.98	20.00	15.91	22.92	( <sup>2</sup> )	34.28	32.50	34.39	35.3	39.80	36.42	33.90
London <sup>1</sup> .....	31.10	20.23	17.75	24.33	( <sup>2</sup> )	33.97	31.33	33.95	33.4	36.66	34.31	31.74
Antwerp.....			18.05	24.62	45.02	35.85	33.27	34.50	33.9	35.83	35.56	32.38
Hamburg.....				26.16	45.76	35.74	32.80	35.22	35.0	37.15	36.50	33.04
Amsterdam.....				25.07	49.53 <sup>3</sup>	38.72				47.50	39.50	33.91
Rotterdam.....				25.07	48.64	36.30	33.69	35.50	35.5	37.26	36.18	33.04
<b>Sacked flour:</b>												
Liverpool.....	27.90	22.40	19.75	30.00	58.63	41.92	39.82	42.80	43.8	46.68	45.01	43.17
Glasgow.....	31.56	22.50	21.50	32.00	( <sup>2</sup> )	41.90	41.38	45.11	45.0	47.93	47.39	45.17
London.....	35.01	23.64	22.00	30.50	( <sup>2</sup> )	41.90	39.80	42.73	43.9	46.66	45.04	43.17
Antwerp.....				35.60	55.27	42.33	40.73	43.75	44.3	45.31	48.05	45.71
Hamburg.....				37.00	56.15	42.17	40.46	43.58	44.1	45.51	46.80	45.79
Amsterdam.....				30.00	55.74	42.65	41.52	44.13	44.6	46.10	47.70	46.50
Rotterdam.....				29.00	55.12	42.50	41.28	44.13	44.6	44.34	47.81	45.71
Copenhagen.....				40.00	64.01	49.42	46.89	48.94	50.4	51.15	55.32	53.50
Stockholm.....				43.00		50.76	48.81	52.25	53.5	54.42	57.32	55.69
<b>Provisions</b>												
Liverpool.....	48.84	38.49	45.38	51.00	137.13	113.50	94.10	104.83	106.5	106.50	116.33	117.75
Glasgow.....	55.31	43.23	46.88	55.31	( <sup>2</sup> )	113.50	94.10	104.83	106.5	106.50	116.33	117.75
London.....	55.87	40.88	47.62	51.00	( <sup>2</sup> )	113.50	94.10	104.83	106.5	106.50	116.33	117.75
Antwerp.....	51.09	43.70	49.44	55.22	104.01	84.89 <sup>4</sup>	82.94	87.75	86.5	87.19	89.00	91.50
Hamburg.....	50.00	45.75	50.00	55.33	104.87	84.36 <sup>5</sup>	84.65	91.50	91.5	91.50	110.50	95.67
Amsterdam.....	51.00	45.42	48.00	54.00	104.25	84.89 <sup>4</sup>	82.54	87.75	86.5	86.72	89.00	91.50
Rotterdam.....	51.00	44.53	47.00	53.00	104.25	84.89 <sup>4</sup>	83.00	87.75	86.5	86.72	89.00	89.00
Copenhagen.....	55.31	48.66	55.31	69.43	113.00	99.75	96.50	100.87	96.5	100.92	103.00	101.50
Stockholm.....	64.50	51.47	56.72	73.14		98.37	94.00	102.00	104.0	104.27	109.00	104.24
Bordeaux.....	64.12	51.45	57.50	71.25	105.16	101.86	96.50	105.45	106.5	106.50	110.75	109.83
Havre.....				69.38	104.20	101.86	96.50	105.45	106.5	106.50	110.75	109.83

<sup>1</sup> Berth rates to British ports beginning 1922 converted from English money at average exchange rates

<sup>2</sup> Rates for Liverpool applied to London and Glasgow

<sup>3</sup> Average for first 18 weeks of 1922

<sup>4</sup> Average for first 8 months

<sup>5</sup> Average for 11 months; October is not available

Source: 1900 to 1916, Secretary of the Board of Trade of Chicago, thereafter, compiled in Bureau of Foreign and Domestic Commerce from various sources

# No. 692.—FOOD MANUFACTURING INDUSTRIES: MATERIALS USED AND PRODUCTS

NOTE.—Data for establishments with products under \$5,000 in value not included for 1925 and 1927. Leaders indicate figures were not secured or not reported separately. For canned vegetables, soups, and fruits quantitative data for 1914 are not strictly comparable with later years. See footnotes

Industry, material, and product	Quantity (thousands of unit specified)				Cost or value (thousands of dollars)		
	Unit	1914	1925	1927	1914	1925	1927
<b>CANNING AND PRESERVING</b>							
All products, total value.....					249, 791	688, 898	652, 636
<b>Fruits, vegetables, and soups</b>							
Canned vegetables and soups.....					151, 980	457, 838	400, 238
Beans.....	Case	18, 994	24, 680	25, 360	92, 291	282, 891	234, 260
Corn.....	do	19, 920	22, 597	10, 255	16, 565	55, 165	53, 069
Peas.....	do	18, 826	16, 544	13, 085	13, 923	51, 346	22, 855
Tomatoes.....	do	16, 200	21, 807	18, 229	15, 089	42, 887	34, 031
Asparagus.....	do	438	1, 896	2, 177	25, 532	42, 680	33, 814
Spinach.....	do	392	2, 045	2, 462	7, 737	10, 487	12, 202
All other.....	do	6, 706	25, 299	25, 788	5, 456	74, 870	6, 225
Canned fruits.....					17, 654	74, 870	72, 064
Peaches.....	Case	43, 408	10, 526	11, 305	24, 897	102, 638	101, 731
Apples.....	do	1, 515	3, 467	2, 939	9, 586	38, 562	36, 235
Berries.....	do	11, 333	2, 120	2, 375	2, 392	6, 951	5, 895
Pears.....	do	41, 063	3, 880	2, 954	3, 102	9, 080	9, 807
Apricots.....	do	1, 052	2, 088	3, 099	3, 854	20, 898	13, 067
Cherries.....	do	1, 543	1, 487	1, 229	3, 061	7, 668	12, 256
All other.....	do	1, 535	2, 425	3, 663	1, 629	7, 253	6, 490
Dried fruits.....	Pound	568, 587	1, 054, 127	1, 012, 798	34, 772	72, 119	17, 981
Raisins.....	do	226, 044	533, 722	435, 292	13, 939	28, 738	84, 167
Prunes.....	do	139, 092	397, 583	438, 586	9, 004	28, 971	25, 824
Peaches.....	do	61, 907	36, 857	33, 038	2, 916	3, 555	23, 738
Apples.....	do	54, 957	21, 121	22, 253	2, 889	3, 555	3, 895
Apricots.....	do	39, 397	33, 039	36, 755	3, 618	2, 227	2, 228
All other.....	do	47, 190	31, 805	41, 572	2, 408	5, 434	5, 439
Dried and dehydrated vegetables.....	do		1, 276	300		189	80
<b>Fish and oysters</b>							
Canned fish, oysters, etc.....					33, 333	58, 637	64, 410
Salmon.....	Case	1, 513	1, 559	1, 504	22, 401	47, 463	51, 090
Sardines.....	do	5, 012	5, 163	6, 183	8, 713	15, 380	15, 712
Shrimps.....	do	460	736	853	6, 239	13, 097	14, 518
Tuna.....	do	437	1, 102	1, 256	1, 726	3, 783	5, 322
Oysters.....	do	945	563	447	1, 688	8, 499	8, 368
Clams.....	do	185	348	202	2, 677	3, 009	2, 368
All other.....	do	236	366	586	670	1, 675	1, 402
Cured fish.....	Pound	159, 863	88, 349	91, 213	738	2, 021	3, 400
Pickles, preserves, sauces.....					10, 932	11, 174	13, 320
All other products.....					4, 361	23, 321	153, 687
<b>FLOUR-MILL INDUSTRY</b>							
Materials used, total cost.....					60, 137	149, 102	153, 687
Wheat.....	Bushel	545, 728	530, 593	544, 054	4, 361	23, 321	34, 301
Corn.....	do	180, 116	105, 355	92, 693	752, 270	1, 125, 379	972, 711
Rye.....	do	12, 814	8, 126	9, 255			
Buckwheat.....	do	5, 478	2, 408	2, 761			
Oats.....	do	50, 227	45, 818	27, 761			
Other grains.....	do	24, 566	15, 658	11, 985			
All products, total value.....					877, 680	1, 298, 015	1, 148, 780
Wheat flour.....	Barrel	116, 404	114, 027	117, 673	543, 840	904, 971	816, 958
Rye flour.....	do	1, 937	1, 561	1, 724	7, 845	8, 923	9, 299
Buckwheat flour.....	Pound	125, 622	47, 565	44, 559	3, 755	1, 874	1, 674
Corn meal.....	Barrel	16, 328	8, 903	8, 378	54, 963	43, 653	37, 138
Bran and middlings.....	Ton	4, 667	4, 474	4, 672	104, 703	136, 711	141, 757
Feed, screenings, etc.....	do	4, 753	3, 023	1, 930	137, 068	114, 895	71, 722
All other.....					25, 506	86, 987	70, 212

<sup>1</sup> 24 No. 2 cans.

<sup>2</sup> A actual number of cases of all sizes.

<sup>3</sup> 24 No. 3 cans.

<sup>4</sup> 24 No. 2½ cans.

<sup>5</sup> 48 No. 1 cans.

<sup>6</sup> 100 No. ¼ cans.

<sup>7</sup> 48 No. ¼ cans.

<sup>8</sup> Weight of bushel

Wheat, 60 pounds, corn,

56; rye 56, buckwheat, 48,

oats, 32

<sup>9</sup> 196 pounds.

<sup>10</sup> 200 pounds.

<sup>11</sup> 2,000 pounds.

**No. 692.—FOOD MANUFACTURING INDUSTRIES: MATERIALS USED AND PRODUCTS—Continued**

Industry, material, and product	Quantity (thousands of unit specified)				Cost or value (thousands of dollars)		
	Unit	1914	1925	1927	1914	1925	1927
<b>CORN SIRUP (GLUCOSE) AND STARCH</b>							
Materials used, total cost.....					40,208	93,064	90,908
Corn.....	Pound..	2,488,792			30,208		
All products, total value.....					52,615	132,898	134,461
Cornstarch.....	Pound..	574,248	854,125	1,012,175	13,785	33,716	32,317
Corn sirup (including all sirup).....	do.....		1,144,858	1,123,791	18,541	41,275	32,519
Corn sugar.....	do.....	174,369	580,370	904,831	3,766	19,505	25,635
Corn oil.....	Gallon..	8,562	12,705	16,070	3,693	14,093	16,169
Stock feed.....					6,690	17,934	19,346
All other.....					6,140	6,375	8,485
<b>RICE CLEANING AND POLISHING</b>							
Materials used, total cost.....					20,616	45,847	46,481
Rough rice.....	Pound..	1,036,588	1,438,901	1,915,038			
All products, total value.....					23,039	53,498	54,130
Clean rice.....	Pound..	674,872	947,787	1,246,642	21,655	51,113	51,828
All other.....					1,384	2,385	2,302
<b>BEEF SUGAR</b>							
Materials used, total cost.....					41,399	87,038	79,017
Beets treated.....	Ton <sup>11</sup> ..	5,639	7,423	6,711			
All products, total value.....					62,605	132,339	104,927
Sugar.....	Ton <sup>11</sup> ..	743	1,083	899	58,590	124,413	98,585
Molasses.....	Gallon..	26,461	24,466	19,097	1,536	2,251	692
Pulp.....	Ton <sup>11</sup> ..		1,550	1,308	2,095	5,530	4,414
All other.....					384	145	1,236
<b>CANE SUGAR</b>							
Materials used, total cost.....					15,958	11,568	5,830
Cane, crushed.....	Ton <sup>11</sup> ..	3,755		975	13,409		
All products, total value.....					21,635	13,435	8,009
Sugar.....	Ton <sup>11</sup> ..	265	116	56	18,948	9,670	5,115
Molasses.....	Gallon..	20,675	15,171	5,585	2,021	1,751	1,120
Sirup.....	do.....	2,421	5,699	3,885	610	1,768	1,341
All other.....					56	246	433
<b>CANE SUGAR REFINING</b>							
Materials used, total cost.....					264,085	549,896	551,564
Raw sugar.....	Pound..	7,120,957	11,470,244	10,809,406	247,086		
All products, total value.....					289,399	606,633	597,446
Refined sugar.....	Ton <sup>11</sup> ..	3,333	5,412	5,128	285,496	600,100	593,620
Sirup.....	Gallon..		8,536	5,537		2,152	1,247
Refiners' blackstrap.....	do.....	35,803	37,373	31,014	3,284	3,859	2,172
All other.....					619	513	407
<b>CHOCOLATE AND COCOA PRODUCTS</b>							
All products, total value.....					35,713	106,642	122,728
Chocolate in cakes.....	Pound..		374,663	388,210		85,614	95,091
Cocoa.....	do.....		85,259	90,910		11,040	13,768
Cocoa butter.....	do.....		25,293	22,770		6,800	8,555
Other products.....						3,188	5,309

<sup>11</sup> 2,000 pounds.

Source: Bureau of the Census, Department of Commerce.

## 29.—FORESTS AND FOREST PRODUCTS

### No. 693.—FORESTS: ESTIMATED ORIGINAL AND PRESENT AREAS, GROWING AREA, ANNUAL GROWTH, AND PRESENT STAND, BY REGIONS

NOTE.—Estimates of present area relate to 1922, of stand of timber and annual growth to 1920 or about that year. These data are necessarily approximate. Annual growth relates to acreages specified as growing area, other areas having no growth in excess of decay.

	Original area (thousand acres)	Present area (thousand acres) <sup>1</sup>					
		Total	Saw timber			Cord-wood (growing)	Non-restocking
			Total	Virgin	Growing		
<b>Total</b> .....	822, 238	469, 475	251, 916	138, 160	113, 756	136, 359	81, 200
New England <sup>2</sup> .....	38, 908	25, 708	11, 261	2, 000	9, 261	8, 872	5, 575
Middle Atlantic <sup>3</sup> .....	69, 610	28, 678	11, 455	1, 896	9, 559	10, 793	6, 430
Lake <sup>4</sup> .....	103, 680	57, 100	24, 030	10, 100	13, 930	12, 570	20, 500
Central <sup>5</sup> .....	170, 560	60, 182	31, 901	7, 600	24, 301	28, 011	2, 270
South Atlantic and East Gulf <sup>6</sup> .....	170, 240	99, 000	46, 200	18, 300	27, 900	32, 080	20, 720
Lower Mississippi <sup>7</sup> .....	128, 400	78, 865	41, 035	20, 835	20, 200	24, 075	13, 755
Rocky Mountain <sup>8</sup> .....	63, 720	60, 842	41, 059	37, 746	3, 313	14, 533	5, 250
Pacific Coast <sup>9</sup> .....	77, 120	59, 100	44, 975	39, 683	5, 292	7, 425	6, 700

  

	Stand of saw timber (millions of board feet)			Annual growth in growing area		
	Total	Hard-wood	Softwood	Saw timber (millions of board feet)	Cord-wood (millions of cubic feet)	Total (millions of cubic feet)
<b>Total</b> .....	2, 214, 893	459, 675	1, 755, 218	9, 872	3, 877	5, 995
New England <sup>2</sup> .....	49, 799	11, 319	38, 480	609	341	474
Middle Atlantic <sup>3</sup> .....	44, 857	29, 504	15, 353	714	342	499
Lake <sup>4</sup> .....	110, 110	69, 350	40, 760	988	251	468
Central <sup>5</sup> .....	144, 470	133, 152	11, 318	1, 458	587	906
South Atlantic and East Gulf <sup>6</sup> .....	220, 577	83, 750	136, 827	2, 428	1, 062	1, 594
Lower Mississippi <sup>7</sup> .....	280, 908	132, 600	148, 308	1, 752	600	933
Rocky Mountain <sup>8</sup> .....	223, 141	-----	223, 141	461	264	365
Pacific Coast <sup>9</sup> .....	1, 141, 031	-----	1, 141, 031	1, 262	430	706

<sup>1</sup> Revised October, 1922

<sup>2</sup> Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, and Connecticut.

<sup>3</sup> New York, New Jersey, Pennsylvania, Delaware, and Maryland.

<sup>4</sup> Michigan, Wisconsin, and Minnesota.

<sup>5</sup> Ohio, Indiana, Illinois, West Virginia, Kentucky, Tennessee, Iowa, Missouri, eastern Kansas, and eastern Nebraska.

<sup>6</sup> Virginia, North Carolina, South Carolina, Georgia, Florida, and Alabama.

<sup>7</sup> Mississippi, Arkansas, Louisiana, eastern Texas, and eastern Oklahoma.

<sup>8</sup> Idaho, Montana, Wyoming, Colorado, western South Dakota (Black Hills), New Mexico, Arizona, Utah, and Nevada.

<sup>9</sup> California, Oregon, and Washington.

Source: Report of the Forest Service, Department of Agriculture, on Senate Resolution 311.

## No. 694.—STAND OF SAW TIMBER (ESTIMATED): ABOUT 1920

[Quantities in millions of board feet]

Species	Total	New England	Middle Atlantic	Lake	Central	South Atlantic and East Gulf	Lower Mississippi	Rocky Mountain	Pacific coast
<b>Grand total</b> .....	<b>2,214,893</b>	<b>49,799</b>	<b>44,857</b>	<b>110,110</b>	<b>144,470</b>	<b>220,577</b>	<b>280,908</b>	<b>223,141</b>	<b>1,141,031</b>
<b>Eastern hardwoods, total</b> .....	<b>459,875</b>	<b>11,319</b>	<b>29,504</b>	<b>69,350</b>	<b>133,152</b>	<b>83,750</b>	<b>132,660</b>		
Oak.....	157,372	1,510	5,500	8,301	64,712	27,889	49,460		
Buch, beech, and maple.....	90,784	8,143	16,897	36,076	20,505	4,522	4,641		
Red gum.....	44,222		176		3,728	13,400	26,918		
Chestnut.....	19,319	990	3,754		7,989	6,616			
Hickory.....	15,784	40	412	187	6,791	3,183	5,171		
Cottonwood and aspen.....	10,824	374	13	999	2,131	1,340	5,967		
Ash.....	9,988	215	513	1,893	2,929	1,256	3,182		
Yellow poplar.....	9,611		126	7	5,193	4,020	265		
Others.....	101,771	77	2,113	21,887	19,174	21,524	36,996		
<b>Eastern softwoods, total</b> .....	<b>391,046</b>	<b>38,480</b>	<b>15,353</b>	<b>40,760</b>	<b>11,318</b>	<b>136,827</b>	<b>148,308</b>		
Southern yellow pine.....	257,691				365	121,442	135,884		
Hemlock.....	30,896	1,804	5,036	18,301	3,910	1,845			
Spruce and fir.....	31,572	23,971	2,948	3,772		881			
Cypress.....	22,921					11,208	11,713		
White and Norway pine.....	23,457	9,816	4,037	8,000	515	1,089			
Others.....	24,509	2,889	1,332	10,687	1,652	362	711		
<b>Western softwoods, total</b> .....	<b>1,364,172</b>							<b>223,141</b>	<b>1,141,031</b>
Douglas fir.....	595,505							36,934	558,571
Western yellow pine and Jeffrey pine.....	249,578							66,125	183,453
Western hemlock.....	95,092							1,092	94,000
True fir.....	91,849							8,870	82,479
Redwood.....	72,208								72,208
Western white pine and sugar pine.....	57,071							18,586	38,485
Western red cedar.....	53,348							4,348	49,000
Lodgepole pine.....	43,919							39,353	4,566
Spruce.....	39,822							26,467	13,355
Others.....	66,280							21,366	44,914

<sup>1</sup> Includes small amounts of spruce, cypress, and various species of yellow pine

## No. 695.—NATIONAL GOVERNMENT FORESTS: AREA AND STANDING TIMBER

NOTE.—Figures include acreage actually acquired under the Weeks law, see Table 697. There were in 1925, 11,196,928 acres of State forests, including Hawaiian forest reserves, State parks, and other forest lands belonging to States, also 697,447 acres of municipal and county forests and parks

State	Net area (acres) June 30, 1928	Standing timber, Jan 1, 1926		State	Net area (acres) June 30, 1928	Standing timber, Jan 1, 1926	
		Saw timber (million board feet)	Cord-wood (1,000 cords)			Saw timber (million board feet)	Cord-wood (1,000 cords)
<b>Total</b> .....	<b>159,490,656</b>	<b>552,339</b>	<b>91,142</b>	Nebraska.....	205,946		
<b>Cont'l U S</b> .....	<b>138,121,316</b>	<b>467,579</b>	<b>91,142</b>	Nevada.....	4,879,019	268	6,613
Alabama.....	109,625	124	34	New Hampshire.....	450,890	1,027	
Alaska.....	21,347,097	84,760		New Jersey.....		3	( <sup>1</sup> )
Arizona.....	11,349,535	14,385	11,427	New Mexico.....	8,515,117	11,187	13,448
Arkansas.....	1,007,235	1,799		New York.....		3	( <sup>1</sup> )
California.....	19,007,370	100,599	24,771	North Carolina.....	381,018	421	2,727
Colorado.....	13,278,283	22,167	5,694	Oklahoma.....	61,480		
Florida.....	343,180	152	1,285	Oregon.....	13,287,866	138,266	
Georgia.....	200,736	338	455	Pennsylvania.....	274,827	17	134
Idaho.....	19,279,539	46,993	6,017	Porto Rico.....	12,443		
Illinois.....	10,710			South Carolina.....	42,111	73	83
Kentucky.....		10		South Dakota.....	1,059,512	2,508	831
Maine.....	33,130	57		Tennessee.....	366,409	507	719
Maryland.....		1	6	Utah.....	7,486,642	5,225	6,670
Michigan.....	178,885	9	37	Virginia.....	590,166	320	877
Minnesota.....	1,005,251	859	6,349	Washington.....	9,633,905	77,155	
Montana.....	16,196,909	28,495		West Virginia.....	237,495	75	118
				Wyoming.....	8,548,275	14,447	2,813

<sup>1</sup> Less than 500 cords.

Source of Tables 694 and 695: Forest Service, Department of Agriculture.

## No. 696.—NATIONAL GOVERNMENT FORESTS: AREA OF EACH FOREST, 1928

NOTE.—Net area is gross area less area of alienated lands

State and forest	Net area	State and forest	Net area	State and forest	Net area
<b>Aggregate (151 national forests)</b>	<i>Acres</i> 159,480,856	<b>Idaho—Continued</b>	<i>Acres</i>	<b>Oregon—Continued</b>	<i>Acres</i>
Alabama: Alabama	1,109,625	Clearwater	793,178	Deschutes	1,297,909
Alaska	21,347,097	Coeur d'Alene	666,763	Fremont	849,286
Chugach	4,796,803	Idaho	1,734,182	Klamath <sup>2</sup>	8,723
Tongass	16,547,294	Kaniksu <sup>2</sup>	192,339	Malheur	1,049,110
Arizona	11,349,835	Lemhi	1,358,792	Mount Hood	1,062,869
Apache <sup>2</sup>	677,853	Mimidoka <sup>2</sup>	520,549	Ochoco	719,273
Cocopino	1,717,697	Nezperce	1,681,107	Santiam	610,923
Coronado <sup>2</sup>	1,356,824	Payette	1,308,311	Siskiyou <sup>2</sup>	1,033,252
Crook	1,424,546	Pend Oreille	676,424	Siuslaw	553,503
Kaibab	723,411	St. Joe	599,842	Umatilla <sup>2</sup>	936,577
Prescott	1,208,270	Salmon	1,708,015	Umpqua	1,014,374
Sitgreaves	686,671	Sawtooth	1,166,729	Wallowa	969,137
Tonto	2,261,792	Selway	1,689,157	Whitman	1,341,830
Tusayan	1,293,271	Targhee <sup>2</sup>	1,031,371	Pennsylvania	274,827
Arkansas	1,007,235	Weiser	565,945	Allegheny	251,568
Quachita	1,672,298	Illinois: Bellevue-Savanna	10,710	Tobyhanna	23,259
Ozark	1,834,937	Maine: White Mountain <sup>2</sup>	33,130	Porto Rico Luquillo	12,443
California	19,007,870	Michigan: Michigan	1,178,885	South Carolina:	
Angeles	644,130	Minnesota	1,005,251	Nantahala <sup>2</sup>	42,111
California	823,712	Chippewa	191,785	South Dakota	1,059,512
Cleveland	380,589	Superior	1,813,466	Black Hills <sup>2</sup>	477,004
Crafter <sup>2</sup>	48,218	Montana	16,196,909	Custer <sup>2</sup>	73,606
Eldorado <sup>2</sup>	551,398	Absaroka	856,679	Harney	508,902
Inyo <sup>2</sup>	1,525,218	Beartooth	660,544	Tennessee	366,409
Klamath <sup>2</sup>	1,524,657	Beaverhead	1,339,292	Cherokee <sup>2</sup>	197,942
Lassen	945,957	Bitterroot	1,050,912	Pisgah <sup>2</sup>	30,741
Modoc	1,492,264	Blackfoot	832,886	Unaka <sup>2</sup>	137,726
Mono <sup>2</sup>	796,546	Cabinet	834,004	Utah	7,486,642
Plumas	1,111,935	Custer <sup>2</sup>	517,060	Ashley <sup>2</sup>	980,329
San Bernardino	596,959	Deerlodge	828,653	Cache <sup>2</sup>	283,801
Santa Barbara	1,775,098	Flathead	1,719,112	Dixie <sup>2</sup>	796,048
Sequoia	1,329,926	Gallatin	580,922	Fishlake	1,386,459
Shasta	890,175	Helena	685,136	La Sal <sup>2</sup>	504,291
Siera	1,493,473	Jefferson	1,040,859	Manti	724,715
Siskiyou <sup>2</sup>	329,384	Kootenai	1,360,942	Mimidoka <sup>2</sup>	70,635
Stanslaus	821,438	Lolo	878,469	Powell	1,051,716
Tahoe <sup>2</sup>	515,657	Madison	953,922	Umta	1,078,782
Timothy	1,410,636	Missoula	1,246,786	Wasatch	609,866
Colorado	13,273,233	Nebraska: Nebraska	205,949	Virginia	590,166
Arapaho	637,106	Nevada	4,979,019	Humphreys	3,184
Cochetopa	908,787	Dixie <sup>2</sup>	56,324	Monongahela <sup>2</sup>	10,414
Colorado	330,843	Eldorado <sup>2</sup>	400	Natural Bridge	161,117
Grand Mesa	659,854	Humboldt	1,322,215	Shenandoah <sup>2</sup>	368,927
Gunnison	911,629	Inyo <sup>2</sup>	60,416	Unaka <sup>2</sup>	46,524
Hayden <sup>2</sup>	66,770	Mono <sup>2</sup>	464,502	Washington	9,633,905
Holy Cross	1,124,318	Nevada	1,175,128	Chelan	1,809,072
La Sal <sup>2</sup>	26,631	Tahoe <sup>2</sup>	16,373	Columbia	759,103
Leadville	929,033	Toiyabe	1,883,661	Colville	747,183
Montezuma	719,412	New Hampshire:		Kaniksu <sup>2</sup>	273,143
Pike	1,087,473	White Mountain <sup>2</sup>	450,890	Mount Baker	1,460,611
Rio Grande	1,136,757	New Mexico	8,515,117	Olympic	1,529,530
Routt	750,334	Apache <sup>2</sup>	887,086	Rainier	1,261,530
San Isabel	600,216	Carson	1,094,344	Snoqualmie	619,651
San Juan	1,248,657	Coronado <sup>2</sup>	124,988	Umatilla <sup>2</sup>	313,359
Uncompahgre	756,310	Datil	1,748,648	Wenatchee	860,718
White River	884,873	Gila	1,596,234	West Virginia	237,495
Florida	343,180	Lincoln	1,113,975	Monongahela <sup>2</sup>	177,806
Choctawhatchee	184,449	Manzano	679,448	Shenandoah <sup>2</sup>	59,689
Ocala	158,731	Santa Fe	1,270,394	Wyoming	8,548,275
Georgia	200,736	North Carolina	381,018	Ashley <sup>2</sup>	6,460
Cherokee <sup>2</sup>	109,743	Cherokee <sup>2</sup>	5,013	Bighorn	1,125,632
Nantahala <sup>2</sup>	90,993	Nantahala <sup>2</sup>	317,094	Black Hills <sup>2</sup>	146,897
Idaho	19,279,539	Pisgah <sup>2</sup>	258,911	Caribou <sup>2</sup>	6,315
Boise	1,063,313	Oklahoma: Wichita	61,480	Hayden <sup>2</sup>	223,074
Cache <sup>2</sup>	494,291	Oregon	13,287,866	Medicine Bow	552,275
Caribou <sup>2</sup>	704,467	Cascade	1,026,800	Shoshone	1,619,657
Challis	1,344,764	Crater <sup>2</sup>	814,300	Targhee <sup>2</sup>	345,570
				Teton	1,881,212
				Washakie	863,135
				Wyoming	1,668,048

<sup>1</sup> Figures include acreage actually acquired under the Weeks law (See Table 697.)<sup>2</sup> Forest lies in more than one State<sup>3</sup> Figures include acreage transferred from the Treasury Department

Source: Forest Service, Department of Agriculture

**No. 697.—NATIONAL GOVERNMENT FORESTS: LANDS ACQUIRED OR APPROVED FOR PURCHASE UNDER WEEKS LAW TO JUNE 30, 1928**

State and area	Total area approved for purchase	Area acquired	Area approved but not acquired	State and area	Total area approved for purchase	Area acquired	Area approved but not acquired
<b>Grand total.....</b>	<i>Acres</i> 3, 125, 788	<i>Acres</i> 2, 806, 440	<i>Acres</i> 319, 348		<i>Acres</i>	<i>Acres</i>	<i>Acres</i>
Alabama Alabama..	98, 554	91, 876	6, 678	North Carolina—Continued			
Arkansas, total.....	150, 773	119, 378	31, 395	Pisgah (part).....	252, 856	250, 844	2, 012
Ouachita.....	83, 707	69, 394	14, 313	Pennsylvania Allegheny.....	314, 130	251, 568	62, 562
Ozark.....	67, 066	49, 984	17, 082	South Carolina: Nantahala (part).....	43, 191	42, 111	1, 080
Georgia, total.....	253, 707	200, 736	52, 971	Tennessee, total.....	377, 165	366, 409	10, 756
Cherokee (part).....	156, 391	109, 743	46, 648	Cherokee (part).....	201, 135	197, 942	3, 193
Nantahala (part).....	97, 316	90, 993	6, 323	Pisgah (part).....	30, 741	30, 741	-----
Maine White Mountain (part).....	33, 481	33, 130	351	Unaka (part).....	145, 289	137, 726	7, 563
Michigan Michigan..	61, 044	52, 123	8, 921	Virginia, total.....	596, 066	586, 982	9, 084
Minnesota Superior..	45, 974	4, 093	41, 881	Monongahela (part).....	10, 414	10, 414	-----
New Hampshire				Natural Bridge.....	162, 037	161, 117	920
White Mountain (part).....	481, 453	450, 890	30, 563	Shenandoah (part).....	372, 541	368, 927	3, 614
North Carolina, total.....	375, 368	369, 649	5, 719	Unaka (part).....	51, 074	46, 524	4, 550
Cherokee (part).....	7, 421	5, 013	2, 408	West Virginia, total.....	294, 882	237, 495	57, 387
Nantahala (part).....	115, 091	113, 792	1, 299	Monongahela (part).....	224, 572	177, 806	46, 766
				Shenandoah (part).....	70, 310	59, 689	10, 621

Source Reports of the National Forest Reservation Commission.

**No. 698.—NATIONAL GOVERNMENT FORESTS: OPERATIONS, YEARS ENDED JUNE 30**

	1923	1924	1925	1926	1927	1928
<b>Timber sales:</b>						
Number <sup>1</sup> .....	12, 720	13, 382	12, 349	13, 199	12, 648	13, 791
Quantity <sup>2</sup> .....M ft. <sup>3</sup> ..	3, 146, 736	1, 333, 254	1, 771, 531	1, 489, 372	642, 698	2, 689, 916
Timber cut under sales <sup>1</sup> .....do....	1, 055, 035	1, 093, 278	1, 183, 167	1, 175, 273	1, 091, 621	1, 336, 601
<b>Free timber given:</b>						
Number of users <sup>1</sup> .....	34, 032	35, 568	32, 695	34, 797	35, 068	38, 165
Timber cut.....M ft. <sup>3</sup> ..	96, 985	89, 367	78, 348	1 88, 170	81, 363	82, 442
Value.....dolls.....	97, 934	93, 900	81, 902	1 97, 330	91, 346	90, 111
<b>Grazing, kinds of stock.<sup>4</sup></b>						
Cattle <sup>1</sup> .....No.....	1, 804, 274	1, 664, 087	1, 538, 942	1, 456, 858	1, 403, 191	1, 335, 903
Goats <sup>1</sup> .....do.....	31, 379	29, 068	19, 795	15, 666	18, 046	17, 070
Swine <sup>1</sup> .....do.....	1, 347	1, 560	846	1, 085	1, 002	1, 206
Horses <sup>1</sup> .....do.....	64, 104	58, 184	57, 904	57, 896	55, 629	51, 955
Sheep <sup>1</sup> .....do.....	6, 377, 759	6, 301, 308	6, 162, 263	6, 212, 657	6, 376, 838	6, 509, 421
<b>Revenue, total.....dolls.....</b>	<b>5, 335, 818</b>	<b>5, 251, 903</b>	<b>5, 000, 137</b>	<b>5, 155, 661</b>	<b>5, 166, 606</b>	<b>5, 441, 435</b>
From:—						
Timber <sup>5</sup> .....do.....	2, 721, 876	3, 036, 396	2, 940, 393	3, 366, 685	3, 253, 243	3, 325, 079
Water power.....do.....	73, 174	82, 916	95, 287	94, 718	98, 749	101, 798
Special uses.....do.....	187, 501	207, 637	229, 236	259, 820	277, 612	285, 684
Grazing.....do.....	2, 341, 486	1, 915, 561	1, 725, 377	1, 421, 889	1, 530, 952	1, 713, 730
All other.....do.....	11, 781	9, 393	9, 844	12, 849	6, 650	15, 144

<sup>1</sup> Data are for calendar year.

<sup>2</sup> Amount sold is to be cut during a period of years, hence greater than amount cut in any one year.

<sup>3</sup> Board measure.

<sup>4</sup> Number actually grazed under permit.

<sup>5</sup> Includes receipts from timber and turpentine sales, timber settlement and trespass.

Source: Reports of the Forest Service, Department of Agriculture.

**No. 699.—LUMBER: REPORTED PRODUCTION, BY SPECIES, AND AVERAGE VALUE**

NOTE.—For 1889 and 1904 custom mills are excluded and beginning with 1910 in each year except 1919 custom mills and mills cutting less than 50,000 board feet are excluded. Custom mills are much less important in recent years than formerly. Apart from the specific exclusions mentioned there are other variations in the completeness of the returns

[Quantities in millions of board feet, average mill values per 1,000 board feet]

Year (calendar)	Production			Average mill value	Year (calendar)	Production			Average mill value
	Total	Hard-wood	Soft-wood			Total	Hard-wood	Soft-wood	
1899-----	12,756	-----	-----	( <sup>1</sup> )	1916-----	39,807	8,475	31,332	\$15 32
1879-----	18,091	-----	-----	( <sup>1</sup> )	1917-----	35,831	6,657	29,174	20 32
1889-----	23,842	-----	-----	\$11 41	1918-----	31,890	6,223	25,667	24 79
1899-----	34,787	8,634	26,153	11 13	1919-----	34,552	7,145	27,407	30 21
1904-----	34,135	6,782	27,353	12 76	1920-----	33,799	6,989	26,810	38 42
1909-----	44,510	10,613	33,897	15 38	1921-----	26,961	4,775	22,186	23 47
1910-----	40,018	8,857	31,161	15 30	1922-----	31,569	4,925	26,644	26 15
1911-----	37,003	8,101	28,902	15 05	1923-----	37,166	6,262	30,904	31 78
1912-----	39,158	8,632	30,526	15 35	1924-----	35,931	6,525	29,406	28 57
1913-----	38,387	8,084	30,303	( <sup>1</sup> )	1925-----	38,339	6,628	31,710	28 02
1914-----	37,346	7,939	29,407	( <sup>1</sup> )	1926-----	36,936	6,467	30,469	27 34
1915-----	37,012	7,527	29,485	14. 04	1927-----	34,532	6,090	28,442	25. 80

Species	Production by species									
	1899	1909	1914	1919	1923	1924	1925	1926	1927	
<b>Softwoods:</b>										
Yellow pine-----	9,659	16,277	14,473	13,063	12,949	12,487	13,236	11,752	10,891	
Douglas fir-----	1,737	4,856	4,764	5,902	8,223	7,462	8,154	8,807	8,443	
White pine-----	7,742	3,900	2,633	1,724	1,572	1,531	1,521	1,366	1,344	
Hemlock-----	3,421	3,051	2,186	1,755	1,873	1,879	2,140	2,159	2,071	
Western yellow pine-----	945	1,500	1,327	1,755	2,805	2,603	3,127	3,173	2,799	
Spruce-----	1,448	1,749	1,246	980	758	717	751	647	529	
Cypress-----	496	956	1,013	656	819	877	903	752	610	
Redwood-----	360	522	535	410	592	604	511	488	570	
Cedar-----	233	346	500	332	365	330	372	368	306	
Larch-----	51	421	359	388	351	306	307	254	288	
White fir-----	-----	89	113	223	330	319	337	350	280	
Sugar pine-----	54	97	136	134	228	246	307	306	282	
Balsam fir-----	-----	109	125	68	19	22	20	18	16	
Lodgepole pine-----	-----	24	18	16	16	23	25	29	13	
All other softwood-----	9	-----	-----	-----	4	-----	-----	-----	-----	
<b>Hardwoods:</b>										
Oak-----	4,438	4,414	3,279	2,708	2,028	2,077	2,129	2,191	2,013	
Maple-----	633	1,107	910	857	842	857	921	829	774	
Red gum-----	285	707	675	851	1,016	1,071	1,101	1,133	1,101	
Yellow poplar-----	1,115	858	519	329	353	351	376	322	335	
Chestnut-----	207	664	541	546	350	313	308	298	264	
Birch-----	133	452	431	375	351	382	412	385	327	
Beech-----	-----	511	376	359	191	194	181	175	154	
Basswood-----	308	399	265	184	173	200	180	153	146	
Elm-----	457	347	214	194	206	209	191	182	161	
Cottonwood-----	415	266	195	144	158	167	142	122	104	
Ash-----	269	291	189	155	149	183	179	164	137	
Hickory-----	97	334	116	170	96	86	79	86	52	
Tupelo-----	-----	97	124	144	175	235	220	256	267	
Walnut-----	39	46	26	39	49	68	70	52	65	
Sycamore-----	30	57	23	28	25	28	24	32	29	
All other hardwood-----	209	63	56	61	100	104	115	107	161	

<sup>1</sup> Not available.

<sup>2</sup> Excludes items reported in M feet b. m. under "Other sawed products." (For total including these items, see Table 700)

Sources: Bureau of the Census, Department of Commerce, and Forest Service, Department of Agriculture.



## No. 700.—LUMBER: REPORTED PRODUCTION BY REGIONS AND STATES

NOTE.—See headnote, Table 699

[In millions of board feet]

	1889	1899	1909	1914	1919	1923	1925	1926	1927
<b>United States</b> .....	29,842	35,078	44,510	37,346	34,552	37,166	38,339	36,936	34,532
<b>Northeastern</b> .....	4,726	5,709	5,197	3,553	2,584	1,632	1,507	1,410	1,231
Maine.....	597	785	1,112	993	596	376	330	341	264
New Hampshire.....	277	572	650	483	339	255	261	243	216
Vermont.....	384	376	352	250	218	120	126	112	91
Massachusetts.....	212	344	361	143	167	128	109	86	88
Connecticut.....	49	108	168	82	87	59	42	47	56
New York.....	925	878	681	486	358	236	198	171	142
New Jersey.....	34	74	62	49	37	14	10	7	5
Pennsylvania.....	2,133	2,333	1,463	865	630	361	331	319	278
Maryland.....	82	184	268	162	113	63	89	69	67
Rhode Island.....	8	19	25	16	11	4	4	6	7
Delaware.....	23	36	55	26	27	16	7	9	17
<b>Central</b> .....	3,130	5,643	5,487	3,621	3,016	2,045	1,969	1,987	1,829
Ohio.....	565	990	543	286	280	152	141	142	123
Indiana.....	755	1,037	556	299	282	189	179	139	148
Illinois.....	222	388	170	66	65	28	30	38	29
Missouri.....	402	724	660	371	321	179	187	179	139
West Virginia.....	302	778	1,473	1,118	763	640	583	589	542
Kentucky.....	423	775	861	596	512	196	207	217	198
Tennessee.....	460	951	1,224	885	792	661	642	683	595
<b>Lake States</b> .....	8,251	8,750	5,476	3,918	2,692	2,392	2,445	2,047	1,794
Michigan.....	4,300	3,018	1,890	1,214	876	833	797	663	573
Minnesota.....	1,084	2,342	1,662	1,312	700	552	679	471	397
Wisconsin.....	2,866	3,389	2,025	1,391	1,116	1,070	1,069	913	819
<b>North Carolina Pine States</b> .....	1,129	3,713	5,177	4,417	3,374	2,937	2,730	2,569	2,408
Virginia.....	416	959	2,102	1,488	1,098	771	709	677	536
North Carolina.....	515	1,287	2,178	2,228	1,654	1,096	1,041	971	1,055
South Carolina.....	199	466	898	702	622	1,070	980	921	817
<b>Southern States</b> .....	3,718	8,404	14,766	13,384	12,704	13,524	14,418	13,093	12,068
Georgia.....	375	1,312	1,342	1,026	894	1,140	1,365	1,145	1,201
Florida.....	412	1,790	1,202	1,074	1,137	1,110	1,064	921	907
Alabama.....	589	1,101	1,691	1,495	1,799	1,757	2,036	2,105	2,172
Mississippi.....	454	1,206	2,573	2,281	2,890	2,691	3,128	2,895	2,557
Arkansas.....	538	1,624	2,111	1,797	1,772	1,538	1,597	1,441	1,229
Louisiana.....	304	1,115	3,552	3,956	3,164	3,554	3,293	2,890	2,386
Texas.....	843	1,232	2,099	1,554	1,880	1,559	1,578	1,456	1,446
Oklahoma.....	3	22	226	201	168	136	157	150	170
<b>Rocky Mountain States</b> .....	249	556	1,292	1,340	1,299	1,811	1,920	1,568	1,748
Montana.....	90	256	308	318	287	427	389	379	396
Idaho.....	28	65	646	764	765	1,073	1,140	947	924
Arizona.....	5	36	63	79	74	131	146	115	169
New Mexico.....	26	31	92	57	87	126	152	127	173
Colorado.....	80	134	142	102	65	38	71	75	67
Utah.....	14	18	13	9	12	8	6	6	6
Wyoming.....	6	17	29	12	9	8	16	19	13
<b>Pacific States</b> .....	2,028	12,902	6,906	7,087	8,798	12,762	113,287	114,139	113,390
Washington.....	1,064	1,429	3,863	3,946	4,961	6,678	7,027	7,456	7,326
Oregon.....	446	735	1,899	1,818	2,577	3,966	4,217	4,455	3,993
California.....	518	737	1,114	1,303	1,259	12,118	12,043	12,188	12,071
<b>All other<sup>1</sup></b> .....	612	401	179	48	85	63	63	63	64
Iowa.....	569	352	132	11	18	10	10	-----	-----
<b>PERCENTAGE DISTRIBUTION</b>									
<b>United States</b> .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Northeastern States.....	19.3	16.3	11.7	9.5	7.5	4.4	3.9	3.8	3.6
Central States.....	13.1	16.1	12.3	9.7	8.7	5.5	5.1	5.4	5.3
Lake States.....	34.6	24.9	12.3	10.5	7.8	6.4	6.4	5.5	5.2
North Carolina Pine States.....	4.7	7.7	11.6	11.8	9.8	7.9	7.1	7.0	7.0
Southern States.....	15.6	24.0	33.3	35.8	36.8	36.4	37.6	35.2	34.9
Rocky Mountain States.....	1.1	1.6	2.9	3.6	3.7	4.9	5.0	4.5	5.0
Pacific States.....	8.5	8.3	15.5	18.9	25.4	34.3	34.7	38.4	38.8
All other.....	2.6	1.1	4	.1	2	.2	.2	.2	.2

<sup>1</sup> Figures include Nevada<sup>2</sup> Includes, besides Iowa, the plains States of Kansas and South Dakota, and in certain years small figures for the District of Columbia, Nebraska, and Nevada

Sources: Bureau of the Census, Department of Commerce, and Forest Service, Department of Agriculture.

## No. 700.—LUMBER: REPORTED PRODUCTION BY REGIONS AND STATES

NOTE.—See headnote, Table 699

[In millions of board feet]

	1889	1899	1909	1914	1919	1923	1925	1926	1927
<b>United States</b> .....	29,842	35,078	44,510	37,346	34,552	37,166	38,339	36,936	34,532
<b>Northeastern</b> .....	4,726	5,709	5,197	3,553	2,584	1,632	1,507	1,410	1,231
Maine.....	597	785	1,112	993	596	376	330	341	264
New Hampshire.....	277	572	650	483	339	255	261	243	216
Vermont.....	384	376	352	250	218	120	126	112	91
Massachusetts.....	212	344	361	143	167	128	109	86	88
Connecticut.....	49	108	168	82	87	59	42	47	56
New York.....	925	878	681	486	358	236	198	171	142
New Jersey.....	34	74	62	49	37	14	10	7	5
Pennsylvania.....	2,133	2,333	1,463	865	630	361	331	319	278
Maryland.....	82	184	268	162	113	63	89	69	67
Rhode Island.....	8	19	25	16	11	4	4	6	7
Delaware.....	23	36	55	26	27	16	7	9	17
<b>Central</b> .....	3,130	5,643	5,487	3,621	3,016	2,045	1,969	1,987	1,829
Ohio.....	565	990	543	286	280	152	141	142	123
Indiana.....	755	1,037	556	299	282	189	179	139	148
Illinois.....	222	388	170	66	65	28	30	38	29
Missouri.....	402	724	660	371	321	179	187	179	139
West Virginia.....	302	778	1,473	1,118	763	640	583	589	542
Kentucky.....	423	775	861	596	512	196	207	217	198
Tennessee.....	460	951	1,224	885	792	661	642	683	595
<b>Lake States</b> .....	8,251	8,750	5,476	3,918	2,692	2,392	2,445	2,047	1,794
Michigan.....	4,300	3,018	1,890	1,214	876	833	797	663	573
Minnesota.....	1,084	2,342	1,662	1,312	700	552	679	471	397
Wisconsin.....	2,866	3,389	2,025	1,391	1,116	1,070	1,069	913	819
<b>North Carolina Pine States</b> .....	1,129	3,713	5,177	4,417	3,374	2,937	2,730	2,569	2,408
Virginia.....	416	959	2,102	1,488	1,098	771	709	677	536
North Carolina.....	515	1,287	2,178	2,228	1,654	1,096	1,041	971	1,055
South Carolina.....	199	466	898	702	622	1,070	980	921	817
<b>Southern States</b> .....	3,718	8,404	14,796	13,384	12,704	13,524	14,418	13,093	12,068
Georgia.....	375	1,312	1,342	1,026	894	1,140	1,365	1,145	1,201
Florida.....	412	1,790	1,202	1,074	1,137	1,110	1,064	921	907
Alabama.....	589	1,101	1,691	1,495	1,799	2,036	2,064	2,105	2,172
Mississippi.....	454	1,206	2,573	2,281	2,890	2,691	3,128	2,895	2,557
Arkansas.....	538	1,624	2,111	1,797	1,772	1,538	1,597	1,441	1,229
Louisiana.....	304	1,115	3,552	3,956	3,164	3,554	3,293	2,890	2,386
Texas.....	843	1,232	2,099	1,554	1,880	1,559	1,578	1,456	1,446
Oklahoma.....	3	22	226	201	168	136	157	150	170
<b>Rocky Mountain States</b> .....	249	556	1,292	1,340	1,299	1,811	1,920	1,568	1,748
Montana.....	90	256	308	318	287	427	389	379	396
Idaho.....	28	65	646	764	765	1,073	1,140	947	924
Arizona.....	5	36	63	79	74	131	146	115	169
New Mexico.....	26	31	92	57	87	126	152	127	173
Colorado.....	80	134	142	102	65	38	71	75	67
Utah.....	14	18	13	9	12	8	6	6	6
Wyoming.....	6	17	29	12	9	8	16	19	13
<b>Pacific States</b> .....	2,028	12,902	6,906	7,087	8,798	12,762	113,287	114,139	113,390
Washington.....	1,064	1,429	3,863	3,946	4,961	6,678	7,027	7,456	7,326
Oregon.....	446	735	1,899	1,818	2,577	3,966	4,217	4,455	3,993
California.....	518	737	1,114	1,303	1,259	12,118	12,043	12,188	12,071
<b>All other<sup>1</sup></b> .....	612	401	179	48	85	63	63	63	64
Iowa.....	569	352	132	11	18	10	10	-----	-----
<b>PERCENTAGE DISTRIBUTION</b>									
<b>United States</b> .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Northeastern States.....	19.3	16.3	11.7	9.5	7.5	4.4	3.9	3.8	3.6
Central States.....	13.1	16.1	12.3	9.7	8.7	5.5	5.1	5.4	5.3
Lake States.....	34.6	24.9	12.3	10.5	7.8	6.4	6.4	5.5	5.2
North Carolina Pine States.....	4.7	7.7	11.6	11.8	9.8	7.9	7.1	7.0	7.0
Southern States.....	15.6	24.0	33.3	35.8	36.8	36.4	37.6	35.2	34.9
Rocky Mountain States.....	1.1	1.6	2.9	3.6	3.7	4.9	5.0	4.5	5.0
Pacific States.....	8.5	8.3	15.5	18.9	25.4	34.3	34.7	38.4	38.8
All other.....	2.6	1.1	4	.1	2	.2	.2	.2	.2

<sup>1</sup> Figures include Nevada<sup>2</sup> Includes, besides Iowa, the plains States of Kansas and South Dakota, and in certain years small figures for the District of Columbia, Nebraska, and Nevada

Sources: Bureau of the Census, Department of Commerce, and Forest Service, Department of Agriculture.

## No 703.—LUMBER: AVERAGE MILL VALUE PER 1,000 BOARD FEET

Kind of wood	1899	1904	1909	1919	1920	1921	1923	1924	1925	1926	1927
All kinds <sup>1</sup> -----	\$11 13	\$12 76	\$15 38	\$30 21	\$38.42	\$23 47	\$31 78	\$28.57	\$28 02	\$27.34	\$25.80
SOFTWOODS											
Balsam fir-----	( <sup>2</sup> )	( <sup>2</sup> )	13 99	32 23	34 33	25 71	27 62	27 66	26 65	25 64	25 92
Cedar-----	10 91	14 35	19 95	33 80	38 68	38 55	37 59	38 74	38 80	37 28	34 39
Cypress-----	13 32	17 50	20 46	38 38	51 02	36 88	44 61	42 08	40 90	43 33	39 31
Douglas fir-----	8 67	9 51	12 44	24 62	34 59	18 04	26 99	22 08	20 94	20 17	19 45
Hemlock-----	9 98	11 91	13.95	29.16	32 05	20.79	26 21	23 35	21 58	20 23	19.06
Larch (tamarack)-----	8 73	11 39	12 68	23 39	30 28	15 56	21.98	20.82	18 25	17.77	17 69
Lodgepole pine-----	( <sup>2</sup> )	( <sup>2</sup> )	16 25	29 98	30 58	21 81	21.76	21 07	20 22	19 98	20 82
Redwood-----	10 12	12.33	14 80	30 04	46 90	40 57	43.08	35 90	33 99	33 80	33 81
Spruce-----	11 27	14.08	16 91	30 76	38 94	25 73	31 44	30 18	27 98	27 27	26 59
Sugar pine-----	12.30	( <sup>2</sup> )	18 14	35 99	48.76	37.83	45.33	40 54	44.79	48 45	43 22
Yellow pine-----	8.46	9 96	12.69	28 71	35 89	19 42	29.82	26 55	26 46	26 54	23 77
Western yellow pine-----	9.70	11 30	15 39	27 75	38 73	26 95	33 09	27.73	27 70	26 63	26 04
White fir-----	( <sup>2</sup> )	( <sup>2</sup> )	13 10	25 65	30 44	21 37	23 84	21 69	22 51	20 15	19 92
White pine-----	12 69	14.93	18 16	32 83	41 49	30 03	34 85	32 66	32 58	31 36	29.90
HARDWOODS											
Ash-----	15 84	18.77	24 44	52 69	61 28	38.18	50 35	49 54	48 46	48 07	43 82
Basswood-----	12 84	16 86	19 50	40 03	54 28	33 09	45 60	41 94	39 76	37 07	39 84
Beech-----	( <sup>2</sup> )	( <sup>2</sup> )	13 25	29 98	36 51	26.99	30 22	29 95	29 21	27 84	27 21
Birch-----	12 50	15 44	16 95	35 79	53 44	31 53	43 32	43 83	41 68	40 80	41 03
Chestnut-----	13 37	13 78	16.12	32 30	42 48	27.87	29 75	25 07	30 37	29 54	29.35
Cottonwood-----	10 37	14.92	18.05	32 24	33 38	25 05	30 19	29 43	26 70	34 47	30 92
Elm-----	11 47	14 45	17.52	36 39	47 23	29 63	43 53	38 63	36 41	37 13	36 22
Gum, red and sap-----	9 63	10 87	13 20	32 68	35 24	22 46	32 35	30 24	31 39	33 73	32 81
Hickory-----	18 78	23 94	30.80	44 37	52 57	36 60	46 39	52 24	39 25	51 20	37 08
Maple-----	11 83	14.94	15 77	35.56	50 16	30 34	41.59	40 36	39 18	37 21	35.35
Oak-----	13 78	17 51	20 50	37 87	46.88	30 56	39 08	36.13	37 00	35.67	35.72
Sycamore-----	11 04	( <sup>2</sup> )	14 87	30 32	32 12	22 55	30 25	29 31	31.11	29 49	29 31
Tupelo-----	( <sup>2</sup> )	( <sup>2</sup> )	11 87	28 42	33 68	18 59	24 90	25 86	24 66	26 71	24 45
Yellow poplar-----	14 03	18.99	25 39	41 65	58 87	37 31	51 29	44 38	43 44	38 63	38 53
Walnut-----	36.49	45 64	43 79	72 13	88.92	88 83	109 38	103.66	111 53	113.57	111.64

<sup>1</sup> Including minor species.<sup>2</sup> No data.

Sources: Bureau of the Census, Department of Commerce and Forest Service, Department of Agriculture

## No. 704.—VENEERS: TIMBER CONSUMED IN MANUFACTURING VENEERS

[In thousands of feet, log scale]

State	1909	1923	1925	1927	Kind of wood	1909	1923	1925	1927
Total-----	435,981	645,793	734,599	961,561	DOMESTIC				
Alabama-----	14,565	43,214	88,561	41,424	Basswood-----	13,715	8,771	9,413	11,885
Arkansas-----	26,116	64,117	88,122	57,611	Birch-----	24,643	43,936	51,490	51,331
Florida-----	33,293	49,016	29,999	77,321	Cottonwood-----	30,842	40,404	39,869	43,456
Illinois-----	35,646	13,722	11,967	11,414	Douglas fir-----	1,111	55,123	101,869	101,220
Kentucky-----	19,356	25,020	23,309	24,193	Elm-----	16,254	9,570	8,503	16,945
Louisiana-----	3,164	23,728	24,395	35,012	Maple-----	35,444	23,310	23,922	24,706
Mississippi-----	7,563	45,496	57,268	80,218	Red gum-----	129,930	220,703	237,465	250,247
New York-----	24,218	16,382	34,095	27,364	Tupelo-----	18,476	36,396	48,311	113,729
North Carolina-----	19,984	53,196	64,640	78,171	Walnut-----	2,400	15,452	17,573	20,786
Oregon-----	3,291	26,369	29,793	32,091	Oak-----	35,403	25,274	20,661	19,502
South Carolina-----	2,944	20,783	29,669	35,311	Yellow pine-----	48,143	65,100	45,818	92,153
Tennessee-----	30,574	30,983	40,454	25,586	Yellow poplar-----	28,826	45,376	50,770	56,899
Virginia-----	21,609	21,179	26,416	33,319	All other-----	32,905	58,373	65,201	141,134
Washington-----	5,419	53,510	112,484	149,319	IMPORTED				
Wisconsin-----	61,737	37,513	64,292	37,864	Mahogany-----	16,057	6,664	7,471	11,954
All other-----	156,502	121,565	119,135	224,343	Spanish cedar-----	5,140	2,714	5,149	4,829
					All other-----	3,353	961	1,114	785

Source: Bureau of the Census, Department of Commerce.

## No. 705.—LATH AND SHINGLES: PRODUCTION

[All figures in thousands of lath or shingles]

Year (calendar)	Lath	Shingles	Year (calendar)	Lath	Shingles
1890.....	2,523,998	12,102,017	1920.....	1,952,983	6,156,416
1904.....	2,647,847	14,546,551	1921.....	1,970,686	6,843,187
1910.....	3,494,718	12,976,362	1922.....	2,940,714	8,131,242
1915.....	2,745,134	8,459,378	1923.....	3,328,013	7,506,869
1916.....	2,754,683	9,371,333	1924.....	2,961,200	6,862,385
1917.....	2,281,738	8,696,513	1925.....	3,161,137	7,324,027
1918.....	1,362,187	5,690,182	1926.....	3,083,130	6,008,346
1919.....	1,724,078	9,192,704	1927.....	2,372,333	6,443,868

  

States	Lath				Shingles			
	1909	1919	1926	1927	1909	1919	1926	1927
Alabama.....	50,979	42,502	39,330	34,084	245,871	62,241	16,309	10,747
Arkansas.....	78,362	72,827	48,935	31,598	208,080	98,937	1,713	-----
California.....	32,615	43,042	104,199	84,941	574,342	191,831	168,194	122,314
Florida.....	55,741	76,402	132,389	101,217	283,206	128,286	32,408	46,606
Georgia.....	58,704	19,718	10,191	4,575	443,260	114,806	11,643	7,550
Idaho.....	86,740	69,150	109,935	108,337	62,308	22,657	19,487	9,464
Louisiana.....	377,708	199,018	273,346	186,167	757,868	300,784	82,977	72,169
Maine.....	337,086	104,223	164,615	117,756	598,131	188,576	57,887	50,864
Michigan.....	218,308	51,469	58,129	30,396	891,649	144,173	70,418	31,538
Minnesota.....	478,008	115,741	224,560	131,281	74,818	4,461	740	110
Mississippi.....	90,926	96,204	197,968	144,453	151,303	34,003	15,732	11,754
Montana.....	35,430	21,362	32,281	19,314	655	253	275	68
North Carolina.....	70,724	19,079	29,534	14,616	280,942	92,139	23,575	15,888
Oregon.....	161,512	122,848	388,733	273,066	293,644	530,066	309,727	309,818
Texas.....	59,627	35,916	70,661	82,015	137,719	13,581	1,966	1,917
Virginia.....	127,555	27,073	29,008	14,317	39,172	1,637	57	50
Washington.....	451,384	339,058	901,976	766,109	8,879,467	7,095,122	5,135,160	5,690,579
West Virginia.....	150,820	22,005	61,224	58,204	6,829	120	391	-----
Wisconsin.....	299,845	138,936	119,533	95,332	392,863	96,928	50,745	54,096
All other.....	481,121	107,505	86,538	74,555	585,374	72,114	9,242	8,846

## No. 706.—COOPERAGE STOCK: PRODUCTION OF STAVES, HEADING, AND HOOPS

NOTE.—Production of wooden hoops in 1923 was 153,954,000, in 1925, 149,167,000, and in 1927, 134,596,000, nearly all elm

Year and State	Staves (thousands)		Heading (thousand sets)		Kind of wood	Staves (thousands)		Heading (thousand sets)	
	Tight	Slack	Tight	Slack		Tight	Slack	Tight	Slack
1909.....	379,231	2,029,548	20,691	140,234	1927	139,827	6,985	10,630	28
1919.....	353,825	1,121,324	24,274	87,381					
1921.....	255,047	893,621	20,505	66,747					
1923.....	222,607	893,682	19,342	80,477					
1925.....	240,023	937,597	28,052	71,371					
1927.....	324,127	961,782	26,445	59,337					
1927					Oak.....	139,827	6,985	10,630	28
Alabama.....	9,837	32,857	(1)	20,606	Gum.....	22,749	315,270	2,480	10,348
Arkansas.....	65,136	271,861	5,194	(1)	Pine.....	25,947	236,358	2,136	32,424
Florida.....	(1)	23,215	(1)	717	Douglas fir.....	45,299	38,566	3,243	1,607
Georgia.....	8,154	18,272	(1)	7,462	Hemlock.....	601	6,492	236	169
Louisiana.....	22,118	59,287	2,378	1,484	Ash.....	5,315	62,865	421	153
Maine.....	8,337	(1)	438	765	Elm.....	369	100,065	11	326
Massachusetts.....	300	(1)	(1)	(1)	Tupelo.....	220	76,621	-----	2,970
Mississippi.....	11,695	77,953	(1)	(1)	Cottonwood.....	108	41,595	-----	842
Missouri.....	7,409	90,942	(1)	(1)	Birch.....	128	633	7	2,922
New Hampshire.....	24,480	1,332	1,838	288	Beech.....	-----	1,386	-----	1,326
North Carolina.....	(1)	78,134	(1)	3,486	Spruce.....	81,934	35,125	7,142	2,695
Tennessee.....	16,541	30,498	1,712	(1)	Maple.....	137	192	28	455
Virginia.....	123,013	(1)	3,498	1,014	Poplar.....	-----	12,499	-----	242
Washington.....	(1)	13,786	(1)	1,014	Basswood.....	107	899	11	1,323
All other.....	158,757	131,995	15,323	19,579	All other.....	1,386	26,231	100	1,502

1 Included in "All other" to avoid disclosing the data reported by individual establishments

Sources of Tables 705 and 706: Bureau of the Census, Department of Commerce, and Forest Service, Department of Agriculture.

**No. 707.—PULPWOOD: CONSUMPTION BY MILLS, AND MILL COST**

NOTE—Figures include both domestic and imported wood The cost is f o b pulp mill

Year	Quantity, all species (cords)	Cost		Year	Quantity, all species (cords)	Cost		Year	Quantity, all species (cords)	Cost	
		Total (thou- sand dollars)	Ave- rage per cord			Total (thou- sand dollars)	Ave- rage per cord			Total (thou- sand dollars)	Ave- rage per cord
1899.....	1,986,310	9,838	\$4 95	1920.....	6,114,072	116,496	\$19.03	1925.....	6,093,821	94,340	\$15.48
1905.....	3,192,123	17,736	5 86	1921.....	4,557,179	91,589	20 10	1926.....	6,766,007	101,229	14.96
1909.....	4,001,607	34,478	8 62	1922.....	5,548,842	89,895	16.20	1927.....	6,750,935	95,452	14 14
1914.....	4,470,763	39,408	8 81	1923.....	5,872,870	95,306	16.23				
1919.....	5,447,832	87,386	15.95	1924.....	5,768,082	92,672	16.07				

KIND OF WOOD	Total consumption (cords)				Consumption by processes, <sup>1</sup> 1927 (cords)				Ave- rage cost per cord, 1927
	1909	1919	1925	1927	Mechan- ical	Sul- phite	Soda	Sul- phate	
Total.....	4,001,607	5,477,832	6,093,821	6,750,935	1,566,008	3,094,622	901,329	1,176,688	\$14 14
Spruce:									
Domestic.....	1,653,249	2,313,419	2,253,219	2,077,893	902,741	1,109,608	—	65,544	17 11
Imported.....	768,332	873,795	818,143	948,216	338,763	579,451	34,002	5,000	19.58
Hemlock:									
Domestic.....	559,657	795,154	1,013,109	1,138,783	101,142	883,874	—	153,767	10 94
Imported.....	—	—	21,705	5,048	—	—	—	—	11 35
Yellow pine.....	90,885	234,463	551,157	755,175	8,784	15,682	84,239	646,470	8 16
Poplar:									
Domestic.....	302,876	180,160	206,982	220,268	17,860	7,990	180,715	13,708	14 23
Imported.....	25,622	158,220	195,988	186,605	350	—	180,326	6,019	17 29
Balsam fir:									
Domestic.....	95,366	288,814	214,600	305,143	109,153	125,451	—	70,589	14 11
Imported.....	—	—	52,590	84,087	24,363	59,724	—	—	18 70
Yellow poplar.....	(2)	72,605	145,871	131,165	55	—	131,113	—	13 54
Jack pine.....	(3)	51,581	102,040	168,734	11,506	13,041	21,976	122,211	10.58
White fir.....	37,176	31,138	84,305	97,145	28,212	65,841	—	3,395	9 84
Tamarack or larch.....	(4)	44,042	76,585	61,104	—	4,220	3,819	53,065	11 15
Gum.....	(4)	30,355	43,388	64,314	—	—	62,189	—	13 18
Other wood.....	219,467	229,005	177,975	221,075	5,366	1,056	191,179	13,311	11 73
Slabs and mill waste.....	243,977	175,081	156,216	286,084	12,665	237,984	11,771	23,664	6 35

<sup>1</sup> In addition there were 12,288 cords of semichemical pulpwood consumed<sup>2</sup> Included in domestic poplar<sup>3</sup> Included in yellow pine<sup>4</sup> Included in "Other wood"**No. 708.—WOOD PULP PRODUCTION: TOTAL AND BY STATES AND PROCESSES**

NOTE—In 1927, 1,435,321 tons of mechanical pulp were not steamed and 175,088 tons steamed; of the other chemical pulp (sulphite, soda, and sulphate) 1,469,743 tons were unbleached and 1,173,687 bleached

Year	Tons	Year	Tons	Year	Tons	Year	Tons
1899.....	1,179,525	1914 <sup>1</sup> .....	2,893,150	1922.....	3,521,644	1925 <sup>1</sup> .....	3,962,217
1904.....	1,921,768	1919 <sup>1</sup> .....	3,517,952	1923 <sup>1</sup> .....	3,788,672	1926 <sup>1</sup> .....	4,394,766
1909.....	2,466,523	1921 <sup>1</sup> .....	2,875,601	1924.....	3,723,266	1927 <sup>1</sup> .....	4,313,403

	1909 <sup>2</sup>	1919	1921	1923	1925	1926 <sup>2</sup>	1927 <sup>2</sup>
Principal States:							
Maine.....	620,705	916,764	710,329	901,007	917,632	945,790	942,162
New York.....	679,534	811,958	606,869	760,199	770,777	822,131	710,227
Wisconsin.....	—	500,549	488,501	577,993	599,601	712,565	690,921
Pennsylvania.....	—	215,686	167,310	236,900	224,399	233,258	218,587
New Hampshire.....	—	232,134	152,797	188,323	217,489	245,600	200,324
Michigan.....	—	106,194	103,532	138,034	161,063	200,604	193,539
Minnesota.....	—	129,560	117,934	179,609	171,536	190,454	191,220
Washington.....	—	83,575	95,161	136,943	161,853	199,164	263,949
West Virginia.....	—	39,195	27,623	23,072	27,167	—	—
Vermont.....	—	85,945	41,945	70,840	40,597	46,376	32,562
California and Oregon.....	—	123,990	124,494	162,653	160,736	178,841	200,869
Other States.....	1,195,284	266,402	239,106	422,099	503,362	616,983	666,643
Processes:							
Mechanical.....	1,179,266	1,518,829	1,267,382	1,580,553	1,612,019	1,764,248	1,610,409
Sulphite.....	1,017,631	1,419,829	1,166,926	1,448,690	1,403,086	1,558,175	1,552,699
Soda.....	298,626	411,693	300,533	445,162	472,647	496,920	487,478
Sulphate.....	—	120,378	140,760	314,267	409,768	519,960	603,253
Semichemical.....	—	—	—	—	—	—	11,983

<sup>1</sup> Total includes screenings.<sup>2</sup> Blank spaces indicate figures not reported separately.

Sources of Tables 707 and 708: Bureau of the Census, Department of Commerce, and Forest Service, Department of Agriculture.

## No. 709.—PAPER AND WOOD PULP: CENSUS STATISTICS OF PRODUCTION

NOTE.—The total value of products involves duplication due to the use of pulp produced by certain plants as material in other plants. Pulp made and consumed in the same plant is not included

	Quantity (thousands of short tons)			Value (thousands of dollars)		
	1914	1925	1927	1914	1925	1927
All products, value.....				\$32, 147	\$71, 882	\$ 919, 891
Total paper.....	5, 270	9, 182	10, 002	291, 588	862, 589	872, 207
Standard newsprint, in rolls and sheets.....	1, 313	1, 563	1, 517	52, 943	106, 083	98, 782
Hanging papers.....	97	105	113	4, 689	9, 506	9, 035
Poster, novel, tablet, lining, etc.....	8	84	183	481	7, 096	2 15, 573
Book paper.....	904	1, 343	1, 329	70, 102	177, 292	160, 809
Cover paper.....	22	24	26	2, 809	5, 806	5, 938
Writing paper (fine).....	243	474	509	34, 055	105, 474	105, 143
Wrapping paper (other than bag, tag board, etc.).....	882	1, 147	1, 285	49, 373	125, 967	137, 138
Bag paper (all kinds).....	( <sup>3</sup> )	124	199	( <sup>3</sup> )	14, 617	20, 143
Tag board, light manila board, and pattern.....	4 29	21	41	4 1, 935	3, 004	5, 299
Boards.....	1, 292	3, 287	3, 774	44, 869	192, 942	211, 264
Tissue paper.....	115	281	316	11, 536	45, 735	46, 617
Blotting paper.....	14	13	13	1, 458	2, 585	2, 700
Building and sheathing, felts, and roofing.....	5 244	555	5 626	5 9, 476	44, 031	5 40, 062
Other paper.....	102	161	71	8, 052	22, 451	13, 639
Wood pulp, for sale or transfer to other mills.....	912	913	( <sup>6</sup> )	31, 678	55, 200	( <sup>6</sup> )
Other products <sup>7</sup> .....				8, 881	54, 093	111, 922

<sup>1</sup> Exclusive of \$64,236,990, the value of paper and paper boards produced and used as materials in converting plants operated by the companies reporting.

<sup>2</sup> Includes catalogue.

<sup>3</sup> Not reported separately.

<sup>4</sup> "Tag stock (rope, jute, and sulphite)."

<sup>5</sup> Reported as building, roofing, asbestos, etc., in 1914; as sheathing, felts, and asbestos filled in 1927.

<sup>6</sup> Not available.

<sup>7</sup> Largely paper bags, boxes, and containers.

## No. 710.—TURPENTINE AND ROSIN PRODUCTION

Year <sup>1</sup>	Turpentine (gallons)			Rosin (barrels of 500 pounds)		
	Total	From gum	From wood	Total	From gum	From wood
1899.....	37, 733, 500	37, 733, 500	( <sup>2</sup> )	2, 434, 933	2, 434, 933	( <sup>2</sup> )
1904.....	31, 129, 236	30, 687, 051	442, 185	1, 964, 674	1, 964, 674	( <sup>2</sup> )
1909.....	29, 714, 132	28, 988, 954	706, 868	1, 827, 760	1, 827, 760	( <sup>2</sup> )
1914.....	27, 648, 939	26, 980, 981	575, 557	1, 649, 160	1, 615, 643	29, 022
1919.....	19, 228, 174	17, 693, 841	1, 534, 333	1, 269, 717	1, 138, 660	131, 057
1921.....	24, 820, 620	24, 378, 854	441, 766	1, 690, 971	1, 661, 624	29, 347
1923.....	29, 781, 944	27, 174, 680	2, 607, 364	1, 990, 865	1, 790, 087	200, 778
1924.....	29, 533, 450	26, 072, 200	3, 261, 250	2, 018, 296	1, 760, 765	257, 531
1925.....	27, 201, 425	23, 922, 250	3, 339, 175	1, 903, 370	1, 615, 886	284, 504
1926.....	29, 483, 055	25, 500, 000	4 3, 983, 055	2, 105, 480	1 1, 740, 000	4 365, 480
1927.....	35, 882, 258	31, 549, 082	4, 333, 176	2, 524, 000	2, 071, 813	452, 187

PRODUCTION FROM CRUDE GUM	Turpentine (gallons)				Rosin (barrels of 500 pounds)			
	1914	1919	1925	1927	1914	1919	1925	1927
Alabama.....	2, 721, 777	2, 037, 005	1, 557, 200	2, 179, 710	165, 099	120, 839	102, 775	144, 381
Florida.....	12, 365, 232	6, 992, 489	8, 649, 050	10, 275, 713	733, 772	486, 432	570, 837	711, 852
Georgia.....	6, 228, 041	3, 997, 310	10, 301, 750	15, 060, 761	347, 631	234, 690	679, 915	953, 923
Mississippi.....	2, 385, 054	1, 749, 812	2, 914, 250	(1, 879, 413)	154, 115	115, 984	192, 339	(117, 638)
Louisiana.....	2, 252, 118	1, 885, 231		(1, 375, 928)	150, 793	112, 900		(93, 601)
Texas.....	647, 160	906, 404		(1, 357, 419)	41, 639	60, 179		
North Carolina and South Carolina.....	383, 599	125, 590	500, 000	795, 551	22, 294	7, 636	33, 000	50, 368

<sup>1</sup> The figures of turpentine and rosin from crude gum beginning with 1919 and from wood beginning with 1925 refer to the crop year ended Mar 31 of the year following. All other figures relate to calendar years.

<sup>2</sup> Not reported.

<sup>3</sup> Estimated Savannah Naval Stores Review, and Bureau of Chemistry, Department of Agriculture.

<sup>4</sup> Compiled by J. E. Lockwood, Hercules Powder Co., and Bureau of Chemistry, Department of Agriculture.

Sources of Tables 709 and 710: Bureau of the Census, Department of Commerce, and Forest Service, Department of Agriculture.

### 30.—FISHERIES

#### No. 711.—QUANTITY AND VALUE OF THE PRODUCTS OF THE FISHERIES OF SPECIFIED SECTIONS

##### NEW ENGLAND STATES

Calendar year	Total		Maine		New Hampshire	
	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars
1880.....		12,503 0		2,742 6		170 6
1889.....	653,170	10,550 6	129,560	2,111 2	4,355	88 5
1898.....	393,458	9,682 3	123,405	2,654 9	3,021	49 0
1902.....	534,075	12,406 3	242,390	2,918 8	1,593	50 0
1905.....	480,284	14,184 2	124,724	2,386 4	1,086	51 9
1908.....	530,029	15,139 0	173,843	3,257 0	677	53 0
1919.....	467,340	19,838 7	147,956	3,889 0	529	92 7
1924.....	406,822	18,818 1	116,707	4,137 0	447	56 0
Calendar year	Massachusetts		Rhode Island		Connecticut	
	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars
1880.....		7,959 8		696 8		933 2
1889.....	299,218	5,858 3	127,365	935 1	39,750	1,557 5
1898.....	202,258	4,463 7	32,854	955 1	31,920	1,559 6
1902.....	230,646	6,482 4	21,614	1,155 7	37,832	1,799 4
1905.....	255,654	7,025 2	23,896	1,546 7	74,973	3,173 9
1908.....	244,313	7,095 0	44,254	1,752 0	66,942	2,982 0
1919.....	246,951	10,859 7	48,251	3,296 6	23,653	1,700 6
1924.....	243,363	10,799 6	20,535	1,818 9	25,770	2,066 7

##### MIDDLE ATLANTIC STATES

Calendar year	Total		New York		New Jersey		Pennsylvania		Delaware	
	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars
1880.....	408,203	8,489 1	329,453	4,225 7	65,151	3,176 6	1,680	89 1	11,918	997 7
1890.....	299,104	8,645 1	192,471	4,602 2	88,730	3,447 4	7,849	328 2	10,054	267 3
1897.....	227,590	7,527 7	109,556	3,391 6	103,783	3,614 4	5,604	269 5	8,643	252 1
1901.....	357,888	9,104 7	228,092	3,894 3	117,931	4,755 5	6,030	251 5	5,835	203 4
1904.....	375,412	10,043 1	277,650	6,230 6	90,108	3,385 4	2,046	167 5	5,608	259 6
1908.....	221,450	8,280 0	71,474	4,390 0	74,827	3,069 0	4,380	280 0	70,760	541 0
1921.....	332,932	11,667 4	210,377	4,986 9	96,937	5,983 4	595	44 6	25,023	652 4
1926.....	168,012	12,456 3	60,721	5,128 7	73,299	6,254 3	735	43 3	33,258	1,030 0

##### CHESAPEAKE BAY STATES

Calendar year	Total		Maryland		Virginia	
	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars
1880.....	254,587	8,346 2	95,713	5,221 7	158,875	3,124 4
1890.....	329,188	9,655 5	143,906	6,019 2	185,283	3,636 4
1897.....	366,582	6,796 8	88,588	3,617 3	277,994	3,179 5
1901.....	461,159	8,380 8	82,975	3,767 5	378,182	4,613 4
1904.....	436,445	8,920 9	81,129	3,336 6	355,316	5,584 4
1908.....	426,311	8,022 0	113,796	3,306 0	312,515	4,716 0
1920.....	530,750	12,740 4	59,531	4,198 7	471,219	8,541 7
1925.....	333,206	13,948 1	56,978	4,863 4	276,228	9,084 6

##### SOUTH ATLANTIC STATES

Calendar year	Total		North Carolina		South Carolina		Georgia		Florida (east coast only)	
	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars	1,000 pounds	1,000 dollars
1880.....	42,952	1,256 6	32,249	845 7	6,143	212 5	2,272	120 0	2,287	78 4
1890.....	67,202	1,573 7	51,799	1,027 7	4,945	202 6	2,994	123 6	7,464	219 9
1897.....	80,590	1,833 2	64,234	1,316 0	5,280	210 5	4,993	170 6	5,883	136 1
1902.....	106,446	2,539 6	67,535	1,739 7	8,174	283 0	11,103	359 1	19,584	477 9
1908.....	166,875	4,034 6	107,422	2,776 0	14,104	283 0	14,828	701 0	36,521	1,269 0
1918.....	332,614	5,348 6	210,502	2,978 7	3,747	207 7	37,154	416 0	81,211	1,746 2
1923.....	228,748	5,086 3	95,192	2,414 5	6,763	284 8	39,896	668 1	86,896	1,719 9
1927.....	260,669	5,995 9	144,466	2,777 4	8,374	350 4	47,607	697 2	60,222	1,870 9

## FISHERIES

## No. 711.—QUANTITY AND VALUE OF THE PRODUCTS OF THE FISHERIES OF SPECIFIED SECTIONS—Continued

## GULF STATES

Calendar year	Total		Florida (west coast only)		Alabama	
	<i>1,000 pounds</i>	<i>1,000 dollars</i>	<i>1,000 pounds</i>	<i>1,000 dollars</i>	<i>1,000 pounds</i>	<i>1,000 dollars</i>
1880.....	23,561	1,227 5	8,376	564 8	3,542	119 3
1890.....	69,076	2,438 7	27,419	1,004 1	4,777	154 9
1897.....	65,361	2,271 7	28,255	944 8	4,699	134 4
1902.....	113,697	3,494 2	48,120	1,462.2	9,351	266 7
1908.....	118,274	4,860 0	37,566	2,120 0	10,665	387 0
1918.....	130,924	6,510 3	54,754	3,420 4	5,609	230 6
1923.....	160,324	8,096 7	73,266	4,026 2	7,631	341 6
1927.....	195,705	9,965 8	73,835	4,351.4	10,076	437.2

  

Calendar year	Mississippi		Louisiana		Texas	
	<i>1,000 pounds</i>	<i>1,000 dollars</i>	<i>1,000 pounds</i>	<i>1,000 dollars</i>	<i>1,000 pounds</i>	<i>1,000 dollars</i>
1880.....	788	22 5	6,996	392 6	3,859	128 3
1890.....	8,131	245.7	20,789	660 1	7,959	313 3
1897.....	7,830	192 3	17,402	713 6	7,175	286.6
1902.....	23,427	553 2	24,754	858 3	8,044	353 3
1908.....	17,302	459 0	42,302	1,448 0	10,439	446 0
1918.....	20,592	762 8	24,954	1,419.4	25,015	677 2
1923.....	25,032	985.7	34,835	1,961.1	19,560	782 0
1927.....	34,503	1,259.4	56,208	2,863 5	21,083	1,054.3

## PACIFIC COAST STATES

Calendar year	Total		Washington		Oregon		California	
	<i>1,000 pounds</i>	<i>1,000 dollars</i>	<i>1,000 pounds</i>	<i>1,000 dollars</i>	<i>1,000 pounds</i>	<i>1,000 dollars</i>	<i>1,000 pounds</i>	<i>1,000 dollars</i>
1888.....	71,883	2,993.1	23,400	890 9	25,169	1,010.8	23,313	1,091 4
1892.....	123,117	4,827.0	36,757	931 6	28,521	872.4	57,838	3,023 0
1899.....	219,338	6,316 2	121,630	2,884 9	23,246	862 9	74,462	2,568 4
1904.....	168,600	6,680 9	88,955	2,972 6	27,535	1,185.1	52,110	2,623 1
1908.....	176,150	6,830 0	100,456	3,513 0	28,217	1,356 0	47,477	1,970 0
1915.....	286,205	9,300 7	158,983	5,317 1	34,708	1,495 5	92,513	2,488 1
1922.....	282,968	12,983 6	69,470	4,953 9	22,372	1,255 7	191,127	6,774 0
1923.....	404,949	19,042 1	111,262	7,800 7	32,883	3,504 4	260,805	7,737 1
1924.....	477,515	20,416 5	93,042	7,487 7	39,578	3,203 6	344,895	9,725 1
1925.....	624,022	25,510 4	143,714	10,406 3	40,007	3,442 4	440,301	11,661 7
1926.....	521,286	18,914 7	89,637	7,942 3	32,998	3,068 0	398,651	7,904 3
1927.....	651,197	22,306 6	125,655	9,145 4	34,195	3,102 9	491,347	10,058 3

## GREAT LAKES

Calendar year	Total <sup>1</sup>		Lake Superior		Lake Michigan		Lake Huron		Lake Erie	
	<i>1,000 pounds</i>	<i>1,000 dollars</i>	<i>1,000 pounds</i>	<i>1,000 dollars</i>	<i>1,000 pounds</i>	<i>1,000 dollars</i>	<i>1,000 pounds</i>	<i>1,000 dollars</i>	<i>1,000 pounds</i>	<i>1,000 dollars</i>
1885.....	99,842	2,691.9	8,826	291 5	23,518	878 8	11,457	276 4	51,457	1,109 1
1890.....	113,899	2,471 8	6,116	221 0	26,434	830 5	10,056	221 1	64,851	1,000 9
1893.....	96,620	2,270 6	8,097	252 1	30,748	828 6	12,064	306 4	42,968	806 0
1899.....	113,727	2,611.4	5,430	150 9	34,500	876 7	12,418	308 1	53,394	1,150 9
1903.....	86,195	2,745.5	13,205	343 7	33,579	1,090 6	14,455	450 3	23,189	780 0
1908.....	106,631	3,768.0	10,198	342 0	40,019	1,554 0	12,932	486 0	41,922	1,280 0
1917.....	103,759	6,298.0	15,447	726 7	35,461	2,270 9	13,363	857 5	38,300	2,330 2
1922.....	108,732	6,689.6	10,988	484 3	26,128	2,133 8	13,942	945 3	56,338	2,977 1
1926 <sup>2</sup> .....	72,908	6,444.6	13,436	760 5	20,495	2,077 6	13,132	1,261 0	25,057	2,246 5
1927 <sup>2</sup> .....	79,188	6,614.8	15,302	918 1	23,681	2,354 8	15,711	1,444 4	23,796	1,831 3

<sup>1</sup> Includes small amounts for Lake Ontario, Lake St. Clair, and St. Clair and Detroit Rivers not shown separately

<sup>2</sup> Data collected for the most part by State fishery agencies and compiled by the Bureau of Fisheries.



## MISSISSIPPI RIVER AND TRIBUTARIES

<sup>5</sup> Including tributaries.

<sup>1</sup> Transporters and persons on transporters are for 1922

Source of Tables 711, 712, and 713: Bureau of Fisheries, Department of Commerce.

**No. 714.—FISHERIES: PRODUCTS LANDED AT BOSTON AND GLOUCESTER, MASS., AND PORTLAND, ME., BY FISHING VESSELS**

Port and calendar year	Total, all species	Cod	Haddock	Hake	Pol-lock	Cusk	Hali-but	Mack-eel	Miscel-laneous
Quantity in thousands of pounds									
All three ports—									
1915	171,596	45,056	57,944	14,890	13,196	6,331	3,871	10,918	19,390
1918	205,501	71,824	66,672	5,281	26,561	2,658	1,781	10,158	20,566
1919	196,481	65,374	82,716	4,339	18,752	2,063	2,115	5,713	15,408
1920	178,281	62,266	75,279	4,721	8,561	1,855	3,789	7,294	14,516
1921	150,805	53,515	67,413	4,536	6,945	2,098	5,666	3,384	7,308
1922	159,875	55,180	70,196	5,374	5,097	2,247	5,624	4,727	11,430
1923	174,941	62,655	73,782	6,338	4,804	2,098	4,875	11,565	7,945
1924	182,948	61,449	79,902	7,285	5,085	3,406	4,422	9,758	11,643
1925	216,869	67,250	91,886	5,806	5,290	3,713	3,561	26,210	13,153
1926	238,426	78,219	94,061	5,505	6,740	2,728	3,431	36,233	11,511
1927	263,550	63,355	128,593	5,862	7,663	2,727	4,779	31,630	19,341
1928	277,982	59,302	155,331	8,423	8,040	2,358	3,385	24,253	16,890
Boston									
1926	167,318	41,101	81,863	4,674	3,104	1,432	2,967	23,489	8,688
1927	194,941	40,310	109,860	4,779	3,202	1,680	4,320	20,444	10,546
1928	218,388	39,956	136,840	6,590	3,087	1,573	3,316	15,305	11,721
Gloucester									
1926	54,901	32,863	6,150	192	2,859	466	15	10,791	1,566
1927	52,552	20,249	11,313	228	3,646	356	43	10,554	6,163
1928	41,904	16,090	9,659	392	4,092	305	4	8,212	3,150
Portland									
1926	16,208	4,254	6,048	639	777	829	449	1,953	1,258
1927	16,357	2,796	7,420	865	815	691	416	532	2,832
1928	17,690	3,256	8,832	1,441	861	480	65	736	2,019
Value in thousands and tenths of thousands of dollars									
All three ports—									
1915	4,737 9	1,273 0	1,307 8	282 5	253 3	98 4	323 3	614 1	585 7
1918	10,531 5	3,617 2	3,199 3	273 1	962 1	103 0	302 3	1,188 9	885 7
1919	7,548 4	2,583 2	2,793 9	181 1	380 5	62 2	387 2	547 2	613 1
1920	8,227 0	2,637 6	2,740 1	153 9	202 1	48 1	741 8	763 1	880 3
1921	5,722 6	1,730 8	2,046 2	109 6	164 6	37 8	803 1	335 6	494 9
1922	5,465 9	1,635 3	1,809 4	111 3	118 0	34 6	784 1	276 0	696 8
1923	7,061 2	2,184 1	2,423 2	142 4	152 2	61 7	922 7	457 0	677 3
1924	6,993 0	2,138 3	2,308 6	156 1	159 4	68 1	789 6	541 0	804 0
1925	8,115 6	2,321 2	2,747 7	173 7	147 6	84 6	655 2	1,131 0	794 4
1926	9,057 7	2,647 5	3,082 9	146 2	153 7	69 6	677 2	1,406 0	880 1
1927	9,404 5	2,146 5	3,531 7	156 5	171 8	71 4	839 9	1,295 0	1,191 0
1928	10,849 1	2,198 7	5,036 5	221 7	174 4	62 7	600 0	1,355 9	1,190 2
Boston									
1926	7,002 6	1,615 9	2,828 3	125 5	85 8	38 7	584 7	973 1	750 7
1927	7,371 5	1,458 9	3,149 1	131 3	86 1	44 9	764 1	863 2	874 0
1928	8,806 1	1,506 0	4,574 0	182 0	83 6	43 5	597 0	874 2	946 0
Gloucester									
1926	1,479 3	897 5	83 5	2 8	54 3	6 5	3 2	374 3	56 9
1927	1,493 9	574 5	188 0	3 3	72 3	4 9	3 5	417 0	230 5
1928	1,477 7	567 4	222 8	7 1	76 0	4 8	0 6	446 8	152 1
Portland									
1926	575 8	134 0	171 1	18 0	13 6	24 4	82 9	59 1	72 6
1927	539 0	113 0	194 7	22 0	13 5	21 0	72 4	15 4	86 6
1928	565 3	125 3	239 7	32 6	14 8	14 4	11 4	34 9	92 1

**No. 715.—CANNED FISHERY PRODUCTS AND BY-PRODUCTS OF THE UNITED STATES AND ALASKA: VALUE**

NOTE.—Values in thousands of dollars. See also census statistics of fish canning, Tables 692 and 797

Product	1921	1922	1923	1924	1925	1926	1927	1928
Total values	54,987	71,842	85,151	82,458	95,177	98,326	94,177	110,758
Salmon	28,867	38,421	45,534	42,402	47,370	56,219	45,729	54,638
California sardines	2,346	3,361	4,608	5,446	6,381	7,807	9,209	9,659
Mame and Massachusetts sardines	3,961	5,750	5,289	7,191	6,717	6,727	5,249	8,076
Tuna and tunahke fishes	3,086	4,373	6,915	5,757	8,499	5,282	8,368	8,374
Shrimps and crabs	3,921	3,168	4,429	4,645	3,835	4,147	5,348	5,226
Clams	1,167	1,716	1,711	2,161	1,850	2,005	2,745	2,624
Oysters	2,179	2,424	2,720	2,478	3,721	2,027	2,368	2,761
Miscellaneous canned products	1,039	1,180	1,119	2,085	2,204	1,978	2,308	4,514
Menhaden—meal, scrap, and oil	4,006	6,127	6,411	3,310	5,623	3,442	3,690	3,440
Miscellaneous by-products	4,415	5,322	6,415	6,983	8,978	8,691	9,103	11,441

Source of Tables 714 and 715. Bureau of Fisheries, Department of Commerce.

## No. 716.—CANNED SALMON OUTPUT, UNITED STATES AND ALASKA

[Quantity in thousands and tenths of thousands of 48-pound cases, value in thousands and tenths of thousands of dollars]

Species	Quantity				Value			
	Total	Wash- ington	Oregon and Cal- ifornia	Alaska	Total	Wash- ington	Oregon and Cal- ifornia	Alaska
Total, all species								
1922-----	5,234 9	441 7	291 6	4,501 7	38,420 7	4,823 1	3,810 5	29,787 2
1923-----	6,403 0	975 8	391 5	5,035 7	45,533 6	7,533 4	5,127 1	32,873 0
1924-----	6,253 6	542 0	416 7	5,294 9	42,401 6	5,062 1	4,332 4	33,007 1
1925-----	6,018 6	1,132 5	426 2	4,459 9	47,369 5	10,079 5	5,300 4	31,689 5
1926-----	7,488 6	489 6	346 2	6,452 9	56,219 3	5,428 3	4,711 0	46,080 0
1927-----	5,076 6	1,091 0	413 5	3,572 1	45,728 8	10,158 2	5,554 3	30,016 3
1928-----	6,926 8	497 4	345 5	6,083 9	54,638 1	5,024 0	4,230 2	45,383 9
Coho or silver.								
1926-----	430 7	152 6	75 5	202 5	3,924 1	1,450 8	772 7	1,700 6
1927-----	463 6	136 7	73 8	253 1	4,366 7	1,390 2	822 5	2,154 0
1928-----	450 8	110 0	42 1	298 7	3,470 1	937 3	407 5	2,126 3
Chum or keta:								
1926-----	1,051 2	133 2	15 6	902 4	5,277 8	678 0	80 9	4,518 9
1927-----	653 1	88 7	56 7	507 7	3,629 6	524 3	327 8	2,777 5
1928-----	1,305 3	193 4	116 2	995 7	7,910 9	1,178 4	702 0	6,036 5
Humpback or pink:								
1926-----	3,341 0	2 6	-----	3,338 3	18,007 1	19 6	-----	17,987 5
1927-----	2,007 4	586 6	-----	1,420 8	12,204 5	3,865 8	-----	8,338 7
1928-----	2,793 3	6 1	-----	2,787 2	18,381 0	45 5	-----	18,285 5
King, chumook, or spring:								
1926-----	402 1	131 0	218 6	52 5	5,825 7	1,973 7	3,307 7	544 2
1927-----	475 7	151 1	254 2	70 4	6,984 0	2,185 3	4,007 1	791 6
1928-----	337 0	110 6	172 2	54 2	5,248 1	1,748 0	2,897 3	602 8
Red or sockeye:								
1926-----	2,232 8	62 8	12 9	2,157 1	22,803 5	1,216 6	258 1	21,328 7
1927-----	1,444 0	119 8	4 0	1,320 2	18,124 9	2,089 5	80 9	15,954 5
1928-----	2,021 3	70 2	3 0	1,948 1	19,409 6	1,015 2	60 6	18,333 8
Steelhead								
1926-----	30 9	7 4	22 6	-----	381 2	89 6	291 6	-----
1927-----	32 8	8 1	24 7	-----	419 1	103 2	315 9	-----
1928-----	19 1	7 1	12 0	-----	262 4	99 6	162 8	-----

Source Bureau of Fisheries, Department of Commerce.

## No. 717.—ALASKA FISHERY INDUSTRIES: SUMMARY OF PRODUCTS

Product	Quantity in thousands of unit specified						Value in thousands of dollars				
	Unit	1915	1920	1925	1927	1928	1915	1920	1925	1927	1928
Total-----							21,008	41,492	40,039	40,163	54,553
Salmon:											
Canned-----	Case-----	4,500	4,429	4,460	3,572	6,084	18,653	35,603	31,990	30,016	45,384
Fresh and frozen-----	Pound-----	3,137	5,165	5,193	5,411	7,853	219	424	395	522	702
Cured, all forms-----	do-----	4,929	3,067	6,895	8,895	7,071	341	510	1,297	1,782	1,341
By-products-----	do-----	1,922	2,071	1,738	1,176	1,740	40	105	60	41	61
Halibut, fresh and frozen-----	do-----	15,718	15,295	10,972	34,491	31,822	812	1,727	884	3,805	3,102
Herring:											
Fresh and frozen-----	do-----					542					8
Cured for food-----	do-----	7,195	8,582	35,171	14,762	16,872	114	542	2,323	1,464	1,354
Bait-----	do-----		4,085	7,087	8,042	6,553		41	89	82	63
By-products-----	do-----	2,213	11,186	34,806	29,735	39,878	41	720	1,490	1,305	1,673
Cod-----	do-----	14,196	12,764	2,854	1,292	573	390	1,117	129	52	29
Sablefish-----	do-----	143	584	1,043	1,339	263	4	29	45	77	12
Other fish-----	do-----	148	110	142	105	89	10	14	10	9	9
Shrimps-----	do-----		112	520	492	504		49	207	197	202
Crabs-----	do-----	14	8	206	119	169	1	2	53	40	52
Clams-----	do-----		222	2,066	635	367		47	492	147	107
Whales:											
Oil-----	do-----	7,337	8,317	7,224	8,373	6,183	333	436	556	548	380
Fertilizer-----	do-----	2,990	3,190	2,444	3,026	2,652	48	120	57	71	74
All other-----	do-----		18	797	77			6	12	3	

Source Bureau of Fisheries, Department of Commerce.

## No. 718.—CANNED SALMON: OUTPUT AND PRICES OF ALASKA PRODUCT

Yearly average or year	Total value of pack (thousands of dollars)	Output, equivalent in thousands of cases of forty-eight 1-pound cans						Average price in dollars per case of forty-eight 1-pound cans				
		Total	Coho or silver	Chum or keta	Hump-back or pink	King or spring	Red or sock-eye	Coho or silver	Chum or keta	Hump-back or pink	King or spring	Red or sock-eye
1910-1914.....	14,885	3,423	129	439	1,040	42	1,771	4 55	2 94	3 14	5 25	5 44
1915.....	18,653	4,500	124	480	1,876	38	1,932	4 31	2 59	2 78	4 63	5 82
1916.....	23,269	4,901	261	724	1,738	66	2,111	5 34	3 34	3 64	5 36	6 04
1917.....	46,304	5,947	193	907	2,297	62	2,488	8 76	6 14	6 44	10 40	9 48
1918.....	51,042	6,606	219	1,365	2,439	49	2,534	9 15	6 27	6 58	9 85	9 44
1919.....	43,265	4,584	233	1,366	1,612	96	1,278	11 27	6 82	8 35	13 13	12 98
1920.....	35,603	4,429	192	1,034	1,593	110	1,501	9 13	4 19	5 47	10 97	13 05
1921.....	19,633	2,597	107	255	424	45	1,766	5 63	3 68	4 21	10 22	8 96
1922.....	29,787	4,502	176	566	1,658	31	2,071	5 47	3 98	4 34	8 08	9 24
1923.....	32,873	5,036	164	526	2,448	38	1,859	5 74	4 65	4 86	8 56	9 24
1924.....	33,007	5,295	184	1,028	2,601	34	1,448	6 33	4 68	4 93	8 89	9 53
1925.....	31,990	4,460	161	1,079	2,111	50	1,060	9 72	4 44	5 23	11 91	13 12
1926.....	46,080	6,653	203	902	3,338	32	2,157	8 40	5 01	5 39	10 37	9 89
1927.....	30,016	3,572	253	508	1,421	70	1,320	8 51	5 47	5 87	11 25	12 08
1928.....	45,384	6,084	299	996	2,787	54	1,948	7 12	6 06	6 56	11 13	9 41

## No. 719.—FISH PROPAGATION: OUTPUT OF FISH EGGS, FRY, AND FINGERLINGS, BY UNITED STATES BUREAU OF FISHERIES, YEARS ENDED JUNE 30

[All quantities expressed in thousands]

Year	Total	Eggs	Fry	Fingerlings	Cost per million <sup>1</sup>
1895.....	619,916	55,408	561,894	2,613	\$292.64
1900.....	1,164,337	88,682	1,070,757	4,808	250.00
1915.....	4,288,758	536,260	3,694,282	58,216	131.55
1917.....	5,158,963	318,939	4,757,909	82,115	114.46
1918.....	4,098,105	147,048	3,782,092	168,965	147.98
1919.....	5,876,985	1,177,871	4,547,340	151,774	106.67
1920.....	4,770,366	630,749	3,872,218	267,388	130.11
1921.....	4,962,489	1,109,637	3,626,263	226,500	128.06
1922.....	5,125,101	1,068,981	3,716,688	339,432	120.36
1923.....	4,314,850	1,463,730	2,586,812	264,316	143.30
1924.....	5,361,811	1,237,582	3,863,848	260,381	115.25
1925.....	5,301,862	1,050,393	4,114,514	136,964	135.61
1926.....	5,232,240	737,135	4,195,939	299,166	142.50
1927.....	6,481,073	1,523,458	4,767,113	190,502	116.30
1928.....	7,036,317	2,253,244	4,521,439	261,634	119.37

Species	1928			Species	1928		
	Eggs	Fry	Fingerlings		Eggs	Fry	Fingerlings
Catfish.....			87,182	Brook trout.....	2,196	2,880	14,413
Buffalo fish.....	29,150	8,392	2,321	Grayling.....		725	
Carp.....	29,250	5,500	3,840	Pike and pickerel.....	210		2,364
Shad.....		48,031		Mackerel.....		5,212	
Glut herring.....		55,000		Crappie.....			23,452
Whitefish.....	20	117,188		Large-mouth black bass.....		954	1,635
Cisco.....	8,000	89,125		Small-mouth black bass.....		598	120
Chinook salmon.....	19,033	343	38,532	Rock bass.....			111
Chum salmon.....	3,000	20,669		Sunfish.....			32,829
Silver salmon.....	1,025	10,852	2,074	Pike perch.....	56,210	201,170	
Sockeye salmon.....	4,410	13,562	19,102	Yellow perch.....		175,825	1,569
Humpback salmon.....		2,387		Striped bass.....		7,231	
Steelhead salmon.....	1,360	1,183	2,189	Fresh-water drum.....			272
Atlantic salmon.....	350		1,202	Cod.....	1,914,735	660,251	
Landlocked salmon.....	78		326	Haddock.....	143,885	118,658	
Rainbow trout.....	6,166	710	6,906	Pollock.....		128,373	
Black-spotted trout.....	7,156	175	7,214	Winter flounder.....	11,357	2,806,223	
Loch Leven trout.....	8,290	1,726	1,845	Miscellaneous fishes.....			56,834
Lake trout.....	7,364	23,496	1,825				

<sup>1</sup> Includes all expenditures chargeable to fish culture and distribution and salaries of all employees in the fish-cultural field services and the administrative and clerical force in Washington, D. C.

Sources of Tables 718 and 719 Bureau of Fisheries, Department of Commerce.

## 31.—MINING AND MINERAL PRODUCTS

[Data in this section cover the following areas unless otherwise indicated: Bureau of Census and American Iron and Steel Institute statistics, continental United States; Bureau of Mines production statistics, continental United States, and, for leading products, outlying areas, foreign trade statistics, United States customs area, which includes Alaska, Hawaii, and Porto Rico. Index numbers of mineral production are shown in Table 800, p. 822]

### No. 720.—TOTAL VALUE OF MINERAL PRODUCTS OF THE UNITED STATES

NOTE—All figures in millions of dollars. See general note above

Yearly average or year	Total	Metal- lic	Non- metal- lic	Un- spec- ified	Year	Total	Metal- lic	Non- metal- lic	Un- spec- ified
1881-1885.....	426	191	229	6	1911.....	1,924	681	1,243	(1)
1886-1890.....	541	248	292	1	1912.....	2,238	862	1,375	(1)
1891-1895.....	592	244	347	1	1913.....	2,434	879	1,554	(1)
1896-1900.....	828	366	461	1	1914.....	2,111	687	1,424	(1)
1901-1905.....	1,592	578	813	1	1915.....	2,395	992	1,400	2
1906-1910.....	1,887	769	1,118	(1)	1916.....	3,508	1,621	1,884	3
1911-1915.....	2,220	820	1,399	1	1917.....	4,992	2,086	2,906	6
1916-1920.....	5,124	1,796	3,322	5	1918.....	5,541	2,153	3,381	7
1921-1925.....	5,155	1,153	3,998	5	1919.....	4,596	1,360	3,233	3
1901.....	1,155	493	661	1	1920.....	6,981	1,762	5,214	5
1902.....	1,329	605	722	1	1921.....	4,139	654	3,483	3
1903.....	1,495	589	906	1	1922.....	4,647	987	3,656	4
1904.....	1,359	501	858	(1)	1923.....	5,987	1,511	4,472	4
1905.....	1,624	703	921	(1)	1924.....	5,306	1,232	4,068	6
1906.....	1,901	886	1,015	(1)	1925.....	5,678	1,380	4,291	6
1907.....	2,070	904	1,165	(1)	1926.....	6,214	1,403	4,803	8
1908.....	1,592	551	1,041	(1)	1927.....	5,530	1,218	4,304	8
1909.....	1,887	755	1,132	(1)	1928.....	5,400	1,282	4,109	9
1910.....	1,988	750	1,238	(1)					

<sup>1</sup> Less than \$500,000

Source: Bureau of Mines, Department of Commerce.

### No. 721.—YEARLY AVERAGE PRICES OF NONFERROUS METALS

[Prices are cents per pound, except quicksilver (dollars per flask<sup>1</sup>) and platinum (dollars per ounce)]

Year	Copper, electro- lytic (New York)	Lead (New York)	Tin <sup>1</sup> (New York)	Zinc (St Louis)	Alumi- num (New York)	Anti- mony (New York)	Quick- silver (New York)	Plati- num (New York)
1896-1900.....	<sup>2</sup> 13.41	3.84	19.54	<sup>4</sup> 4.55	37.15	8.204	42.17	<sup>5</sup> 16.66
1901-1905.....	13.877	4.330	28.194	<sup>6</sup> 5.284	33.80	7.398	43.17	19.55
1906.....	19.278	5.657	39.819	6.048	35.75	21.730	40.90	28.04
1907.....	20.004	5.325	38.166	5.812	45.00	14.840	41.50	30.98
1908.....	13.208	4.200	29.465	4.578	28.70	8.004	44.84	16.32
1909.....	12.982	4.273	29.725	5.352	23.18	7.466	46.30	24.87
1910.....	12.738	4.446	34.123	5.370	22.97	7.386	47.06	32.70
1911.....	12.376	4.420	42.281	5.608	20.34	7.540	46.54	43.12
1912.....	16.341	4.471	46.096	6.799	22.52	7.760	42.46	45.55
1913.....	15.269	4.370	44.252	5.504	23.63	7.520	39.54	44.88
1914.....	13.602	3.862	34.301	5.061	18.60	8.763	48.31	45.14
1915.....	17.275	4.673	38.590	13.054	34.13	30.280	87.01	47.13
1916.....	27.202	6.858	43.480	12.634	60.73	25.370	125.49	83.40
1917.....	27.180	8.787	61.802	8.730	51.25	20.600	106.30	102.82
1918.....	<sup>7</sup> 24.628	7.413	(9)	7.890	33.60	12.581	123.47	105.95
1919.....	18.691	5.759	63.328	6.988	32.14	8.190	92.15	114.61
1920.....	17.456	7.957	43.273	7.671	30.61	8.485	81.12	110.90
1921.....	12.502	4.545	28.576	4.655	21.21	4.957	45.46	75.03
1922.....	13.382	5.734	31.831	5.716	18.65	5.471	58.95	97.02
1923.....	14.421	7.267	41.799	6.607	25.41	7.897	66.50	116.54
1924.....	13.024	8.097	49.674	6.344	27.03	10.836	69.76	118.82
1925.....	14.042	9.020	56.790	7.622	27.19	17.494	83.13	119.09
1926.....	13.795	8.417	63.615	7.337	26.99	15.988	91.90	113.27
1927.....	12.920	6.759	62.747	6.242	25.41	12.393	<sup>8</sup> 118.16	84.64
1928.....	14.570	6.305	(9)	6.027	23.90	10.305	123.51	78.58

<sup>1</sup> Flasks of 75 pounds prior to 1928, 76 pounds in 1928

<sup>2</sup> 99 per cent tin

<sup>3</sup> Prices 1895 to 1898 are for Lake copper

<sup>4</sup> Data are for New York zinc

<sup>5</sup> Average for 1899 and 1900 only

<sup>6</sup> Average, 1903-1905, average for New York zinc, 1901-1905, 5.058 cents.

<sup>7</sup> Average of 11 months, no quotations being made in December

<sup>8</sup> No average computed

Sources: Review Number and Year Book, Engineering and Mining Journal-Press, except aluminum beginning 1909, which is from the American Metal Market.

# No. 722.—MINES AND QUARRIES, PRODUCING AND NONPRODUCING: PRINCIPAL STATISTICS, 1919

	Total	Continental United States	Alaska	Hawaii	Porto Rico
Number of enterprises.....	22, 361	21, 997	346	5	13
Number of mines and quarries.....	14, 802	14, 417	367	5	13
Number of petroleum and natural gas wells.....	257, 681	257, 673	8	-----	-----
Number of natural-gas gasoline plants.....	1, 115	1, 115	-----	-----	-----
Persons engaged, total.....	1, 088, 444	1, 084, 796	3, 267	155	226
Proprietors and firm members, to- tal.....	22, 769	22, 155	593	4	17
Salaried employees.....	75, 688	75, 457	199	6	26
Wage earners (average number).....	989, 987	987, 184	2, 475	145	183
Power used (aggregate horsepower).....	6, 816, 814	6, 786, 475	29, 979	325	35
Capital.....	\$7, 225, 446, 992	\$7, 108, 629, 496	\$116, 626, 441	\$112, 882	\$84, 173
Principal expenses.....	2, 556, 682, 424	2, 545, 925, 350	10, 493, 020	171, 850	92, 204
Salaries.....	151, 820, 643	151, 272, 451	533, 076	5, 533	9, 583
Wages.....	1, 309, 565, 597	1, 304, 409, 342	5, 010, 611	89, 365	56, 279
Supplies and materials.....	531, 688, 470	528, 853, 639	2, 789, 755	34, 423	10, 653
Cost of ore, coal, and natural gas purchased as material or for re- sale.....	35, 905, 352	35, 905, 352	-----	-----	-----
Fuel and purchased power.....	124, 610, 053	123, 509, 588	1, 080, 318	14, 560	5, 557
Royalties and rents.....	176, 478, 995	176, 129, 858	314, 066	26, 282	8, 789
Taxes.....	141, 878, 154	141, 567, 734	307, 390	1, 687	1, 843
Contract work.....	82, 696, 872	82, 239, 098	457, 774	-----	-----
Value of products.....	3, 174, 507, 462	3, 158, 463, 966	15, 634, 801	250, 538	158, 157

Source Bureau of the Census, Department of Commerce.

# No. 723.—PRODUCING MINES AND QUARRIES: PRINCIPAL STATISTICS, CONTINENTAL UNITED STATES

	1899	1902	1909	1919	Per cent of in- crease <sup>1</sup> 1909- 1919
Number of enterprises.....	( <sup>2</sup> )	46, 858	21, 268	21, 280	0 1
Number of mines and quarries.....	22, 084	17, 039	18, 164	13, 844	-23. 8
Number of petroleum and natural-gas wells.....	37, 410	123, 200	166, 320	257, 673	54 0
Number of natural-gas gasoline plants.....	-----	-----	-----	1, 115	-----
Persons engaged.....	-----	-----	1, 041, 682	1, 077, 875	3. 5
Proprietors and firm members, total.....	( <sup>3</sup> )	( <sup>3</sup> )	29, 922	21, 918	-26 7
Number performing manual labor.....	( <sup>3</sup> )	( <sup>3</sup> )	8, 861	5, 245	-40 8
Salaried employees.....	6, 541	38, 128	44, 127	74, 197	68 1
Wage earners (average number).....	536, 043	581, 728	967, 633	981, 560	1. 4
Wage earners, Dec. 15, or nearest rep- resentative day, total.....	536, 043	581, 728	1, 065, 283	1, 088, 189	2. 2
Above ground.....	244, 127	221, 505	366, 962	332, 766	4. 3
Below ground.....	291, 916	360, 223	698, 321	705, 423	1 0
Power used (aggregate horsepower).....	( <sup>4</sup> )	2, 867, 562	4, 608, 253	6, 723, 786	45 9
Capital.....	\$1, 310, 535, 318	( <sup>3</sup> )	\$3, 380, 525, 841	\$6, 955, 466, 831	105 8
Principal expenses:					
Salaries.....	5, 520, 600	\$39, 020, 552	53, 393, 551	149, 328, 985	179. 7
Wages.....	222, 041, 887	369, 959, 960	586, 774, 079	1, 295, 936, 226	103. 8
Supplies and materials.....	86, 075, 925	123, 814, 967	173, 411, 438	519, 593, 676	199. 6
Cost of ore, coal, and natural gas pur- chased as material or for resale.....	-----	-----	29, 318, 316	35, 905, 352	22 5
Fuel and purchased power.....	( <sup>5</sup> )	( <sup>5</sup> )	45, 130, 550	122, 105, 930	170 5
Royalties and rents.....	( <sup>5</sup> )	34, 530, 713	63, 973, 585	175, 293, 984	174 0
Taxes.....	( <sup>5</sup> )	( <sup>5</sup> )	17, 796, 763	140, 999, 626	692 3
Contract work.....	( <sup>5</sup> )	20, 677, 938	28, 887, 898	79, 380, 177	174 8
Value of products.....	438, 111, 548	796, 826, 417	1, 238, 410, 322	3, 158, 463, 966	155. 0

<sup>1</sup> A minus sign (—) denotes decrease<sup>2</sup> Not reported<sup>3</sup> Average number.<sup>4</sup> Comparable figures not available.<sup>5</sup> Includes cost of fuel.

Source Bureau of the Census, Department of Commerce.

**No. 724.—PRODUCING MINES AND QUARRIES: SIZE OF ENTERPRISES,  
CONTINENTAL UNITED STATES, 1919**

Industry and value of products per enterprise	Number of enterprises	Value of products		Industry and wage earners per enterprise	Enterprises		Wage earners	
		Amount	Per cent		Number	Per cent	Average number	Per cent
<b>All industries</b> .....	21,280	\$3, 158, 463, 866	100 0	<b>All industries</b> .....	21,280	100 0	981,560	100 0
Less than \$5,000.....	6,586	15, 228, 604	0 5	No wage earners.....	3,722	17 5	—	—
\$5,000 to \$20,000.....	5,539	58, 745, 473	1 9	1 to 5.....	7,912	37 2	16,761	1 7
\$20,000 to \$100,000.....	4,990	287, 600, 990	7 5	6 to 20.....	3,948	18 6	44,506	4 5
\$100,000 to \$500,000.....	3,005	686, 788, 422	21 7	21 to 50.....	2,309	10 9	76,040	7 7
\$500,000 to \$1,000,000.....	684	472, 131, 636	14 9	51 to 100.....	1,372	6 4	98,621	10 0
\$1,000,000 to \$5,000,000.....	392	754, 160, 595	23 9	101 to 500.....	1,743	8 2	377,339	38 4
\$5,000,000 and over.....	84	933, 808, 246	29 6	501 to 1,000.....	182	0 9	125,278	12 8
				Over 1,000.....	92	0 4	243,015	24 8
<b>Anthracite coal</b> .....	254	364, 084, 142	100 0	<b>Anthracite coal</b> .....	254	100 0	147,372	100 0
Less than \$5,000.....	37	89, 977	( <sup>1</sup> )	No wage earners.....	2	0 8	—	—
\$5,000 to \$20,000.....	38	440, 045	0 1	1 to 5.....	62	24 4	139	0 1
\$20,000 to \$100,000.....	43	1, 843, 631	0 5	6 to 20.....	39	15 4	469	0 3
\$100,000 to \$500,000.....	39	10, 076, 964	2 8	21 to 50.....	20	7 9	623	0 4
\$500,000 to \$1,000,000.....	32	24, 276, 649	6 7	51 to 100.....	13	5 1	981	0 7
\$1,000,000 to \$5,000,000.....	48	83, 086, 309	22 8	101 to 500.....	63	24 8	18,240	12 4
\$5,000,000 and over.....	17	244, 270, 547	67 1	501 to 1,000.....	33	13 0	21,804	14 8
				Over 1,000.....	22	8 7	105,110	71 3
<b>Bituminous coal</b> .....	6,636	1, 145, 877, 565	100 0	<b>Bituminous coal</b> .....	6,636	100 0	545,798	100 0
Less than \$5,000.....	818	2, 711, 023	0 2	No wage earners.....	62	0 9	—	—
\$5,000 to \$20,000.....	1,618	17, 614, 491	1 5	1 to 5.....	1,512	22 8	4,337	0 8
\$20,000 to \$100,000.....	2,006	100, 379, 635	8 8	6 to 20.....	1,549	23 3	18,074	3 3
\$100,000 to \$500,000.....	1,651	384, 075, 398	33 7	21 to 50.....	1,238	18 7	41,009	7 5
\$500,000 to \$1,000,000.....	377	257, 196, 333	22 4	51 to 100.....	888	13 4	64,355	11 8
\$1,000,000 to \$5,000,000.....	156	289, 392, 384	25 3	101 to 500.....	1,241	18 7	259,288	47 5
\$5,000,000 and over.....	10	92, 608, 301	8 1	501 to 1,000.....	101	1 5	68,737	12 6
				Over 1,000.....	45	0 7	89,998	16 5
<b>Petroleum and natural gas</b> .....	9,814	931, 793, 423	100 0	<b>Petroleum and natural gas</b> .....	9,814	100 0	93,205	100 0
Less than \$5,000.....	4,348	9, 531, 235	1 0	No wage earners.....	2,202	33 5	—	—
\$5,000 to \$20,000.....	2,797	28, 019, 564	3 1	1 to 5.....	4,925	50 2	8,852	9 5
\$20,000 to \$100,000.....	1,696	75, 785, 417	8 1	6 to 20.....	1,034	10 5	11,036	11 8
\$100,000 to \$500,000.....	684	150, 748, 376	16 2	21 to 50.....	296	3 0	9,874	10 6
\$500,000 to \$1,000,000.....	156	109, 951, 280	11 8	51 to 100.....	133	1 4	9,592	10 3
\$1,000,000 to \$5,000,000.....	96	204, 187, 367	21 9	101 to 500.....	102	1 0	21,978	23 6
\$5,000,000 and over.....	37	352, 670, 184	37 8	501 to 1,000.....	24	0 2	17,358	18 6
				Over 1,000.....	8	0 1	14,515	15 6
<b>Iron ore</b> .....	290	218, 217, 905	100 0	<b>Iron ore</b> .....	290	100 0	45,741	100 0
Less than \$5,000.....	15	30, 040	( <sup>1</sup> )	No wage earners.....	5	1 7	—	—
\$5,000 to \$20,000.....	29	392, 775	0 2	1 to 5.....	21	7 2	63	0 1
\$20,000 to \$100,000.....	69	3, 774, 321	1 7	6 to 20.....	43	14 8	574	1 3
\$100,000 to \$500,000.....	98	26, 543, 784	12 1	21 to 50.....	57	19 7	2,180	4 8
\$500,000 to \$1,000,000.....	41	28, 239, 920	12 9	51 to 100.....	54	18 6	3,622	8 4
\$1,000,000 to \$5,000,000.....	35	63, 674, 560	29 2	101 to 500.....	102	35 2	31,032	67 8
\$5,000,000 and over.....	3	95, 646, 505	43 8	501 to 1,000.....	7	2 4	5,535	12 5
				Over 1,000.....	1	0 3	2,635	6 1

<sup>1</sup> Less than one-tenth of 1 per cent.

**No. 725.—MINES AND QUARRIES: HOURS OF LABOR IN CONTINENTAL  
UNITED STATES, 1919**

Industry	Total wage earners	Wage earners in mines where the prevailing hours of labor per week were—					
		35 and under	36 to 43	44 to 53	54 to 62	63 to 71	72 to 84
<b>All industries</b> .....	981,560	17,755	19,856	721,899	182,126	26,841	13,083
<b>Coal</b> .....							
Anthracite.....	147,372	—	315	145,787	807	442	21
Bituminous.....	545,798	15,978	17,163	485,574	25,222	1,841	20
<b>Petroleum and natural gas</b> .....	93,205	1,295	327	13,227	44,068	21,726	12,562
<b>Iron ore</b> .....	45,741	11	219	20,311	24,637	563	—
<b>Copper</b> .....	43,717	—	7	21,150	21,166	1,394	—
<b>Limestone</b> .....	22,069	57	24	8,774	17,934	280	—
<b>Lead and zinc</b> .....	21,584	115	—	15,082	6,684	—	3
<b>Gold and silver, lode mines</b> .....	15,438	—	3	3,595	11,586	251	1
<b>Gold, placer mines</b> .....	1,380	—	—	62	1,243	72	3
<b>Granite</b> .....	3,049	43	1,195	4,829	1,948	34	—
<b>Clay</b> .....	6,453	27	33	2,351	3,033	4	5
<b>Phosphate rock</b> .....	4,373	5	30	309	3,683	—	346
<b>Sandstone</b> .....	4,287	—	8	483	3,688	108	—
<b>Slate</b> .....	3,513	—	335	963	2,170	45	—
<b>Basalt</b> .....	3,336	20	3	728	2,585	—	—
<b>Gypsum</b> .....	2,191	—	1	830	1,317	43	—
<b>Marble</b> .....	1,732	—	—	50	1,667	15	—
<b>Sulphur</b> .....	1,129	—	—	—	1,129	—	—
<b>All other</b> .....	10,895	204	193	2,794	7,559	23	122

Source of Tables 724 and 725 Bureau of the Census, Department of Commerce.

**No. 726.—PRODUCING MINES AND QUARRIES: SUMMARY BY INDUSTRIES,  
CONTINENTAL UNITED STATES**

Industry	Number of enterprises <sup>1</sup>		Wage earners (average number)		Power used (aggregate horsepower)		Wages		Value of products	
							1909	1919	1909	1919
	1909	1919	1909	1919	1909	1919	Expressed in thousands of dollars			
<b>All industries <sup>2</sup></b>	<b>19,915</b>	<b>21,280</b>	<b>967,633</b>	<b>981,560</b>	<b>4,808,253</b>	<b>6,723,786</b>	<b>568,774</b>	<b>1,295,936</b>	<b>1,238,410</b>	<b>3,158,434</b>
<b>FUELS</b>										
Coal:										
Anthracite	192	254	169,387	147,372	676,753	899,783	92,318	210,289	149,180	364,084
Bituminous	3,503	6,636	511,723	545,798	1,227,401	2,155,412	294,196	682,601	427,962	1,145,978
Petroleum and natural gas	7,793	9,814	36,744	93,205	1,221,969	1,821,342	27,092	134,521	185,417	931,793
<b>METALS</b>										
Iron ore	176	290	47,246	45,741	346,534	370,869	29,731	75,713	106,947	218,218
Copper	161	195	51,643	43,717	376,464	523,591	49,383	66,390	134,617	181,258
Gold and silver:										
Lode mines	1,604	740	29,428	15,436	200,966	149,680	30,868	23,818	83,886	58,632
Placer mines	678	112	3,084	1,380	27,278	35,632	2,670	1,914	10,237	9,369
Lead and zinc	977	432	16,807	21,884	110,559	229,541	10,478	30,708	31,363	75,579
Manganese	5	35	80	909	215	5,800	12	1,086	31	2,188
Quicksilver	12	26	544	748	784	2,607	408	828	868	1,803
Rare metals	26	22	531	633	3,237	3,544	( <sup>3</sup> )	748	9,688	1,726
<b>STONE</b>										
Limestone	1,665	895	30,289	22,069	125,024	213,717	14,082	23,926	29,832	52,944
Granite	707	353	18,744	8,049	61,095	55,674	11,112	3,588	18,998	18,279
Sandstone	1,158	255	9,812	4,287	36,556	33,869	4,761	4,449	9,291	10,685
Basalt	196	163	5,256	3,336	29,211	37,307	2,539	3,991	5,878	9,658
Slate	185	101	8,803	3,513	29,777	20,613	4,088	3,128	6,054	5,721
Marble	77	48	6,166	1,732	21,779	15,628	3,079	1,452	6,239	4,398
<b>MISCELLANEOUS</b>										
Abrasive materials	49	34	403	317	1,344	1,748	( <sup>3</sup> )	322	-----	722
Asbestos	5	10	54	146	380	420	31	92	65	250
Asphalt	12	9	205	324	828	648	129	295	466	750
Barytes	23	89	240	919	262	3,029	90	769	225	1,592
Bauxite	10	10	563	738	1,565	2,597	198	942	671	2,190
Clay	261	345	3,262	5,453	8,868	21,243	1,362	5,367	2,946	10,086
Feldspar	22	30	247	349	993	1,782	107	264	271	584
Fluorspar	13	54	290	1,124	1,179	7,138	168	1,196	289	3,335
Fuller's earth	16	9	327	824	1,739	2,538	119	541	316	2,019
Graphite	19	21	294	419	2,647	6,410	160	342	344	869
Gypsum	78	47	3,462	2,191	17,685	15,032	1,821	2,478	5,813	6,906
Magnesite	6	11	50	448	126	2,540	32	652	68	2,177
Mica	73	65	272	448	463	803	125	288	207	695
Millstones	14	11	51	37	-----	220	17	48	34	61
Mineral pigments	23	23	151	185	849	1,630	44	174	151	480
Phosphate rock	51	48	7,873	4,373	50,526	49,639	3,216	3,901	10,781	10,300
Pyrite	11	17	1,086	1,172	5,758	7,388	408	1,385	677	2,409
Silica	14	24	158	166	1,219	2,032	82	166	231	372
Sulphur	4	4	366	1,129	3,114	15,291	325	1,682	4,432	17,936
Talc and soapstone	39	28	1,256	958	9,433	7,053	504	835	1,175	2,302

<sup>1</sup> Operators, not enterprises, in 1909.<sup>2</sup> The totals for all industries include, besides those specified, statistics for the chromite industry in 1919 and for the borax, chromite, grindstone, marl, monazite and zircon, peat, and precious stones industries in 1909, for which comparable figures could not be given. The value of products of these industries did not exceed one-tenth of 1 per cent of the total for all industries in either year.<sup>3</sup> Figures not available.

Source. Bureau of the Census, Department of Commerce.



## No. 727.—PRODUCING MINES AND QUARRIES: SUMMARY BY STATES

Division and State	Number of enterprises <sup>1</sup>		Wage earners (average number)		Power used (aggregate horsepower)		Wages		Value of products	
	1909	1919 <sup>2</sup>	1909	1919	1909	1919	1909	1919	1909	1919
							Expressed in thousands of dollars			
<b>Continental United States</b>	<b>19,915</b>	<b>21,280</b>	<b>967,633</b>	<b>981,560</b>	<b>4,608,253</b>	<b>6,723,736</b>	<b>586,774</b>	<b>1,295,936</b>	<b>1,238,410</b>	<b>3,158,464</b>
<b>New England</b> .....	510	302	17,048	7,213	61,259	62,750	3,814	8,036	17,328	18,723
Maine.....	97	50	2,144	979	8,141	6,277	1,332	1,052	2,056	1,823
New Hampshire.....	45	30	1,418	682	3,771	4,336	926	826	1,309	1,568
Vermont.....	137	93	8,145	2,936	25,668	28,119	4,449	3,042	8,221	8,555
Massachusetts.....	139	74	3,291	1,704	15,031	12,458	1,967	2,069	3,468	4,176
Rhode Island.....	21	14	665	369	2,350	3,000	410	400	898	952
Connecticut.....	71	41	1,385	543	6,298	8,520	730	647	1,376	1,649
<b>Middle Atlantic</b> .....	6,333	6,604	376,633	334,175	1,738,613	2,124,682	204,992	458,109	370,742	553,891
New York.....	1,351	700	9,305	6,202	101,759	91,339	4,717	7,497	13,335	25,131
New Jersey.....	131	97	6,315	4,576	18,048	33,901	2,801	5,393	8,347	9,309
Pennsylvania.....	4,851	5,807	361,013	323,397	1,618,806	1,999,422	197,474	445,219	349,600	519,451
<b>East North Central</b> .....	4,152	3,772	190,468	190,011	913,857	1,150,153	118,673	237,638	237,533	480,452
Ohio.....	1,876	2,283	50,567	49,298	294,763	337,611	26,769	58,110	63,767	134,518
Indiana.....	1,010	503	23,936	26,751	95,039	129,663	14,783	30,193	21,934	52,840
Illinois.....	915	772	72,086	79,123	225,330	318,231	46,379	94,179	76,659	178,673
Michigan.....	83	122	39,169	31,292	273,861	337,832	27,661	50,406	67,714	103,870
Wisconsin.....	268	92	4,710	3,547	24,864	26,766	3,081	4,750	7,459	10,581
<b>West North Central</b> .....	2,300	1,728	75,196	62,253	370,390	426,242	50,566	84,267	130,252	280,111
Minnesota.....	153	135	16,556	17,265	151,834	144,199	11,907	29,333	58,665	130,339
Iowa.....	373	198	10,450	11,274	23,433	32,171	10,870	12,466	18,878	18,474
Missouri.....	1,021	468	23,420	14,857	109,672	100,160	14,394	16,777	31,607	33,366
North Dakota.....	53	79	562	774	2,025	2,037	364	1,026	565	1,927
South Dakota.....	39	23	3,456	1,785	15,648	11,844	3,225	2,497	6,432	5,314
Nebraska.....	18	9	349	162	815	1,847	170	166	322	293
Kansas.....	643	814	14,343	16,136	66,943	133,984	9,636	21,949	18,723	90,338
<b>South Atlantic</b> .....	1,358	2,281	109,210	129,695	536,643	849,169	49,866	149,268	105,716	352,059
Delaware.....	9	7	493	116	1,480	660	218	136	516	244
Maryland.....	126	126	7,190	5,628	18,118	18,660	3,339	6,152	5,782	9,699
Virginia.....	150	202	15,257	14,547	34,630	57,880	5,280	16,103	8,796	29,363
West Virginia.....	798	1,714	73,410	100,812	416,282	704,279	35,981	119,578	76,288	295,607
North Carolina.....	118	102	2,215	1,890	6,062	5,039	863	1,489	1,359	2,737
South Carolina.....	29	20	1,814	933	7,012	4,656	626	680	1,253	1,351
Georgia.....	92	74	3,383	2,397	10,698	13,026	1,278	2,017	2,875	4,082
Florida.....	36	36	5,443	3,372	42,366	44,969	2,351	3,108	8,847	8,976
<b>East South Central</b> .....	830	1,405	62,906	90,612	179,650	351,353	29,444	98,768	49,143	181,645
Kentucky.....	437	938	13,297	43,563	53,203	148,893	7,827	49,551	12,100	98,487
Tennessee.....	216	203	16,338	14,470	34,523	56,685	7,359	12,987	12,692	23,292
Alabama.....	177	264	28,271	32,579	91,924	145,775	14,258	36,230	24,351	59,866
<b>West South Central</b> .....	1,229	2,821	23,898	60,936	149,602	684,736	15,672	88,445	47,531	490,727
Arkansas.....	96	120	4,935	3,630	14,080	21,365	3,026	4,573	4,604	8,405
Louisiana-Mississippi <sup>4</sup> .....	33	137	926	5,228	8,445	86,135	873	7,505	6,547	40,016
Oklahoma.....	864	1,934	11,658	33,914	95,674	448,173	7,775	46,809	25,638	281,928
Texas.....	236	624	6,379	18,164	32,003	129,063	3,998	29,558	10,742	160,373
<b>Mountain</b> .....	1,972	1,508	83,993	81,519	467,184	716,949	82,061	131,192	205,054	321,826
Montana.....	373	259	18,846	16,129	174,389	143,718	21,361	25,724	54,992	49,924
Idaho.....	174	82	3,246	2,455	26,278	31,239	4,046	4,202	8,649	11,840
Wyoming.....	60	106	7,742	9,699	30,338	62,737	6,267	14,570	10,572	41,929
Colorado.....	672	477	21,453	16,790	98,777	116,351	18,463	25,405	45,680	51,273
New Mexico.....	95	85	5,107	7,100	16,042	59,876	3,529	10,494	5,588	18,817
Arizona.....	135	155	12,938	15,268	47,272	166,091	13,503	26,193	34,218	88,478
Utah.....	188	141	10,089	9,847	47,226	86,131	8,987	17,197	22,083	41,511
Nevada.....	266	203	4,642	4,231	26,862	50,786	5,925	7,401	23,272	18,054
<b>Pacific</b> .....	1,538	858	28,281	25,134	191,050	337,675	25,648	40,207	75,111	178,884
Washington.....	93	83	6,904	5,050	20,742	38,198	5,891	7,466	10,538	13,329
Oregon.....	116	50	860	740	8,070	6,264	705	993	1,191	1,885
California.....	1,329	725	20,517	19,344	162,238	313,213	19,050	31,748	63,382	163,770

<sup>1</sup> Operators, not enterprises, in 1909.<sup>2</sup> The total for the United States includes, besides the States specified, statistics for the District of Columbia for which no statistics were reported for 1909.<sup>3</sup> Exclusive of duplication, 307 operators having reported in two or more States.<sup>4</sup> For 1909 statistics are for Louisiana only, nothing reported for Mississippi.

Source: Bureau of the Census, Department of Commerce.

## No. 728.—MINERAL PRODUCTS OF THE UNITED STATES: QUANTITIES AND VALUES

NOTE.—Data cover continental United States and, for leading products, outlying areas. Certain of the figures represent shipments rather than quantity mined, and some of the figures for 1928 are estimates. Blank spaces indicate absence of data in most cases; method of computing total value is indicated by footnotes. Short tons are 2,000 pounds, long tons, 2,240 pounds

Product	Quantity						Value in thousands of dollars					
	1910	1915	1920	1925	1927	1928	1910	1915	1920	1925	1927	1928
<b>METALLIC</b>												
Aluminum.....							8,966	16,280	41,375	36,430	39,966	47,899
Antimonial lead <sup>1</sup> ..... short tons.....	14,069	23,224	12,535	19,667	24,347	33,058	1,338	3,666	1,963	3,786	3,277	3,978
Antimony <sup>1</sup> ..... do.....	2,229	5,364	2,785	2,624	2,736	3,432	2,869	2,374	1,473	1,918	1,676	2,707
Bauxite..... long tons.....	148,932	297,041	521,908	316,540	320,940	375,426	716	1,515	3,247	1,988	1,969	2,374
Cadmium..... pounds.....	4,700	91,415	128,283	502,824	1,074,654	1,875,896	3	108	151	277	645	1,144
Chromite..... long tons.....	205	3,281	2,502	108	201	660	3	37	45	2	5	15
Copper, <sup>1</sup> sales value..... 1,000 pounds.....	1,080,160	1,388,010	1,209,061	1,674,870	1,684,041	1,825,900	137,180	242,902	222,467	237,832	220,609	262,930
Ferro-alloys..... long tons.....	( <sup>1</sup> )	388,644	612,808	616,222	646,749	794,695	( <sup>1</sup> )	17,450	77,519	53,048	55,164	66,578
Gold..... 1,000 troy ounces.....	4,657	4,888	2,476	2,412	2,197	2,194	96,269	101,036	51,187	49,860	45,419	45,860
Iron.....												
Ore <sup>1</sup> ..... 1,000 long tons.....	56,890	55,493	69,281	63,925	61,232	63,453	140,736	101,289	285,006	160,797	151,126	155,789
Pig..... do.....	26,674	30,384	35,710	36,815	34,967	38,304	412,162	401,410	1,140,904	736,316	646,236	661,351
Lead (refined) <sup>1</sup> sales value..... short tons.....	375,402	507,026	476,849	654,921	668,320	626,202	33,655	47,660	76,296	113,666	84,208	72,639
Manganese ore (35 per cent or more Mn)..... long tons.....	2,258	9,613	94,420	98,354	44,741	46,636	23	113	2,396	1,858	1,152	1,213
Manganiferous ore (5 to 35 per cent Mn) <sup>1</sup> ..... long tons.....	61,101	195,735	767,064	1,448,054	1,461,608	1,177,762	187	817	2,438	3,752	3,947	3,063
Mercury, metal..... flasks (75 pounds net).....	20,601	21,033	13,392	9,174	11,276	16,838	958	1,806	1,067	763	1,315	2,052
Mercury ore..... short tons.....	124,000	158,000	109,000	65,000	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Nickel (value at New York City)..... do.....		822	365	272	860	522		538	293	170	391	292
<b>Ores (crude), tailings, etc.:</b>												
Copper..... 1,000 short tons.....	28,497	43,404	36,765	53,267	56,826	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Copper-lead and copper-lead zinc..... do.....	20	11	27	229	419	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Dry and siliceous (gold and silver)..... do.....	9,646	12,687	8,590	8,995	8,550	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Lead..... do.....	5,781	7,497	7,300	8,560	8,349	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Lead-zinc..... do.....	12,390	18,176	12,393	17,741	14,647	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Zinc..... do.....			2,651	3,411	6,823	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Platinum and allied metals (value at New York City)..... troy ounces.....	733	8,665	41,644	49,643	46,050	59,039	25	479	4,698	5,662	3,780	4,698
Silver..... 1,000 troy ounces.....	57,138	74,961	55,362	66,155	60,434	56,020	30,855	37,397	60,802	45,912	34,266	32,772
Tin (metallic equivalent)..... short tons.....		102	22	14	27	46	23	79	22	16	35	46
Titanium ore (ilmenite)..... do.....				5,566	3,500	( <sup>1</sup> )				80	44	( <sup>1</sup> )
Titanium ore (rutile)..... do.....	568	250	277	46	( <sup>1</sup> )	( <sup>1</sup> )	44	28	( <sup>1</sup> )	11	( <sup>1</sup> )	( <sup>1</sup> )
Tungsten ore (60 per cent concentrate)..... do.....	1,821	2,362	216	1,190	1,164	1,208	833	4,100	102	756	724	754
Uranium and vanadium ores..... do.....			35,076	13,070	( <sup>1</sup> )	( <sup>1</sup> )		694	2,401	331	( <sup>1</sup> )	( <sup>1</sup> )
Zinc, <sup>1</sup> sales value..... do.....	252,479	458,135	450,045	555,631	576,960	591,525	27,268	113,617	72,907	84,456	73,851	72,166
Total metallic products (approximate).....							749,879	901,730	1,762,360	1,890,280	1,217,700	1,382,000

NONMETALLICS

Arsenous oxide..... short tons.....	1,497	5,498	11,502	12,317	11,560	11,767	52	302	2,021	1,193	725	755
Asbestos..... do.....	5,093	1,781	1,648	1,253	2,981	2,289	65	77	673	52	537	351
Asphalt.....												
Native..... do.....												
Oil..... do.....	260,080	740,254	898,993	584,850	839,040	799,071	3,080	5,242	13,199	4,148	5,606	5,095
Barite (crude)..... do.....	42,975	108,547	228,113	228,063	254,265	268,544	122	381	2,142	1,709	1,671	1,751
Borates..... do.....	42,357	67,003	120,320	113,700	109,080	131,000	1,202	1,677	2,173	3,086	3,473	4,000
Bromine..... 1,000 pounds.....	245	856	1,161	1,566	1,756	2,164	32	856	745	488	565	649
Calcium-magnesium chloride..... short tons.....	10,971	20,535	27,849	67,870	95,721	102,030	75	131	539	1,387	1,943	1,996
Cement..... 1,000 bbls. (376 lbs. net).....	77,785	87,685	97,079	130,047	174,023	177,949	68,752	75,155	195,590	281,076	281,736	278,756
Clay.....												
Prodnets.....							166,827	160,080	373,670	423,447	403,393	(10)
Raw..... 1,000 short tons.....	2,389	2,363	3,116	4,080	3,849	3,975	3,625	3,972	11,614	12,737	13,697	13,696
Coal.....												
Bituminous <sup>11</sup> ..... do.....	417,111	442,624	568,667	520,053	517,763	492,755	468,282	502,038	2,129,933	1,060,402	1,029,657	946,090
Pennsylvania anthracite..... 1,000 long tons.....	75,433	79,460	79,993	55,194	71,514	68,513	160,275	184,653	434,252	327,665	420,942	400,374
Coke <sup>5</sup> ..... 1,000 short tons.....	41,709	41,581	51,945	51,267	51,092	52,689	99,743	105,504	494,246	262,559	262,321	(7)
Diatomite and tripoli..... short tons.....		35,304	102,155	102,418	126,099	120,299	130	167	1,649	1,357	12,417	11,515
Emery..... do.....	1,028	3,063	2,327	769	506	1,341	15	31	22	6	6	17
Feldspar (crude)..... long tons.....	72,413	93,855	135,551	185,706	202,497	210,811	602	489	851	1,316	1,425	1,419
Fluorspar..... short tons.....	69,427	136,941	186,773	113,669	112,546	140,490	430	784	4,719	2,052	2,055	2,677
Fuller's earth..... do.....	32,822	47,901	128,457	206,574	264,478	287,012	284	489	2,406	2,924	3,767	3,896
Garnet for abrasive purposes..... do.....	3,814	4,301	5,476	8,429	6,989	6,617	114	140	434	713	574	459
Gems and precious stones.....							296	170	265	(12)	(13)	(13)
Graphite.....												
Amorphous..... short tons.....	1,407	1,181	4,694	3,536	2,595	2,994	40	12	50	40	36	43
Crystalline..... 1,000 pounds.....	5,591	7,074	9,632	2,257	5,224	5,233	296	417	576	57	197	254
Gndstones and pulpstones..... short tons.....			53,484	37,340	31,931	33,238	796	648	1,707	1,706	1,555	1,509
Gypsum..... 1,000 short tons.....	2,379	2,448	3,129	5,678	5,347	5,102	6,523	6,597	24,533	47,577	42,174	32,066
Lime..... do.....	3,508	3,623	3,570	4,581	4,415	4,395	14,088	14,424	37,544	42,609	38,638	36,600
Magnesite (crude)..... short tons.....	12,443	30,499	308,767	120,660	121,490	127,200	75	274	2,748	1,433	1,091	1,099
Mica.....												
Scrap..... do.....	4,085	3,939	5,723	9,695	6,280	5,800	53	51	167	174	110	104
Sheet..... 1,000 pounds.....	2,476	554	1,663	1,794	1,512	1,620	284	378	547	322	212	279
Millstones.....							28	53	63	22	35	39
Mineral paints.....												
Natural pigments <sup>14</sup> ..... short tons.....	68,623	57,442	(14)	(14)	(14)	(14)	528	552	(14)	(14)	(14)	(14)
Zinc and lead pigments <sup>15</sup> ..... do.....	75,162	141,383	143,244	190,190	191,353	201,495	6,353	14,962	24,585	23,311	25,276	25,893
Mineral waters..... 1,000 gallons.....	62,030	52,114	36,218	(14)	(14)	(14)	6,358	5,139	4,861	(14)	(14)	(14)
Natural gas..... 1,000,000 cu. ft.....	509,155	628,579	798,210	1,188,371	1,445,428	1,540,000	70,756	101,312	196,194	265,271	317,930	333,000
Natural-gas gasoline..... 1,000 gallons.....		65,365	384,744	1,127,470	1,641,144	1,776,000		5,151	71,788	129,383	118,693	135,800
Oilstones, etc..... short tons.....			1,144	970	1,048	956	229	115	232	272	234	228
Peat..... do.....		42,284	73,204	72,436	(15)	(15)	140	289	922	453	(15)	(15)
Petroleum..... 1,000 barrels (42 gal.).....	208,557	281,104	442,929	763,743	901,129	900,364	127,900	179,463	1,360,745	1,284,900	1,172,530	1,077,900
Phosphate rock..... 1,000 long tons.....	2,655	1,836	4,104	3,482	3,171	3,440	10,917	5,413	25,080	11,516	11,553	12,340
Potash (K <sub>2</sub> O)..... short tons.....		1,090	41,444	25,892	49,300	60,370		342	7,463	1,204	2,448	3,029
Pumice..... do.....	23,271	27,708	41,638	40,350	53,298	57,430	95	63	114	179	221	279
Pyrites..... long tons.....	241,612	394,124	310,777	170,051	215,786	182,049	973	1,676	1,597	650	801	605
Salt..... 1,000 short tons.....	4,243	5,352	6,840	7,308	7,550	8,075	7,900	11,748	29,894	26,162	24,518	26,773

MINERAL PRODUCTS

For footnotes see p. 746.

## No. 728.—MINERAL PRODUCTS OF THE UNITED STATES: QUANTITIES AND VALUES—Continued

746

Products	Quantity						Value in thousands of dollars					
	1910	1915	1920	1925	1927	1928	1910	1915	1920	1925	1927	1928
<b>NONMETALLIC—continued</b>												
Sand:												
Glass.....1,000 short tons.....	1,461	1,884	2,166	2,335	2,172	2,000	1,517	1,607	4,749	3,836	3,258	3,000
Molding, building, etc., and gravel.....	67,949	74,719	79,875	169,667	195,288	194,000	19,521	21,515	60,913	108,706	112,272	109,000
Sand-lime brick.....thousands.....	172,507	179,043	169,761	<sup>a</sup> 315,585	<sup>a</sup> 319,618	<sup>a</sup> 313,553	1,169	1,135	2,490	<sup>a</sup> 3,781	<sup>a</sup> 3,646	( <sup>b</sup> )
Silica (quartz).....short tons.....	63,577	112,575	63,190	25,444	22,144	22,198	194	274	320	205	194	209
Slate.....do.....			468,700	724,600	692,040	646,360	6,287	4,959	8,726	12,575	11,351	11,472
Stone.....1,000 short tons.....			78,527	115,851	136,345	133,130	76,521	74,598	133,542	174,217	198,647	196,800
Sulphur.....1,000 long tons.....	251	294	1,518	1,858	2,072	2,083	4,522	4,509	30,000	26,000	38,300	37,600
Sulphuric acid (60° Baumé) from copper and zinc smelters.....1,000 short tons.....		<sup>10</sup> 905	<sup>11</sup> 1,290	1,007	1,041	1,140		7,621	13,017	7,513	8,234	9,008
Talc and soapstone.....short tons.....	150,716	186,391	210,635	<sup>17</sup> 182,256	<sup>17</sup> 192,316	<sup>17</sup> 205,926	1,592	1,892	3,085	<sup>17</sup> 2,012	<sup>17</sup> 2,235	<sup>17</sup> 2,520
Total nonmetallic products (approximate).....							1,287,866	1,400,484	5,214,170	4,814,700	4,803,800	4,109,000
<b>SUMMARY OF VALUES</b>												
Metallic products.....							749,879	901,730	1,762,350	1,330,280	1,217,700	1,232,000
Nonmetallic products (exclusive of fuels).....							409,455	427,667	1,021,290	1,232,420	1,243,553	1,216,000
Mineral fuels.....							828,213	972,617	4,192,910	3,056,680	3,060,047	2,893,000
"Unspecified" (metallic and nonmetallic) products partly estimated.....							809	2,430	4,820	6,250	8,200	9,000
Grand total (approximate).....							1,987,344	2,304,444	6,981,340	5,677,630	5,528,600	5,400,000

MINERAL PRODUCTS

<sup>1</sup> From both domestic and foreign ores.

<sup>2</sup> Content of antimonial lead. Value excluded from metallic total as the value of the antimony is included in the antimonial lead value. Value for antimony other than that in antimonial lead is included in metallic total. Bureau of Mines not at liberty to publish figures.

<sup>3</sup> Product from domestic ores only.

<sup>4</sup> Included under "Pig iron."

<sup>5</sup> Value not included in total value, since value of product derived therefrom, or of raw material used, is accounted for under other items.

<sup>6</sup> Including ore used for fluxing.

<sup>7</sup> Figures not available. Value of products derived therefrom, or raw materials used, is included elsewhere.

<sup>8</sup> Value included in total value of metallic products. Bureau of Mines not at liberty to publish figures.

<sup>9</sup> Figures obtained through cooperation with Bureau of the Census.

<sup>10</sup> Figures not yet available. Estimate of value included in total value of nonmetallic products.

<sup>11</sup> Includes brown coal and lignite and anthracite mined elsewhere than in Pennsylvania.

<sup>12</sup> Tripoli only. Value of datomite is included in total value of nonmetallic products. Bureau of Mines not at liberty to publish figures.

<sup>13</sup> No canvass. Estimate of value included in total value of nonmetallic products.

<sup>14</sup> Canvass discontinued after 1915. Value of iron ore sold for paint included under "Unspecified."

<sup>15</sup> Sublimed blue lead, sublimed white lead, leaded zinc oxide, and zinc oxide.

<sup>16</sup> In 1915 includes 58,139 tons and in 1920, 23,728 tons of stronger acid, not converted to 60° Baumé.

<sup>17</sup> Talc only. Value of soapstone is included in value of nonmetallic products. Bureau of Mines not at liberty to publish figures.

Source: Bureau of Mines, Department of Commerce.

## No. 729.—MINERAL PRODUCTION, BY STATES

NOTE.—Iron ore, not pig iron, is taken as the basis of valuation of iron and in the case of other metals, mine production (recoverable content of metals) is the basis. For principal mineral products of each State see Table 730

[Values in thousands of dollars]

Division and State	1921	1922	1923	1924	1925	1926	1927
Continental United States.....	3,764,717	4,115,519	5,158,287	4,658,264	4,965,430	5,485,743	4,887,527
New England.....	82,253	84,570	48,030	48,950	48,452	50,707	48,531
Maine.....	4,392	5,588	7,566	6,035	5,839	5,786	5,476
New Hampshire.....	2,234	2,283	3,573	3,378	3,465	4,145	3,447
Vermont.....	10,650	9,577	13,910	14,549	14,409	14,955	14,703
Massachusetts.....	9,535	11,005	14,781	15,726	16,832	16,787	16,295
Rhode Island.....	923	771	1,023	1,133	1,152	1,339	1,311
Connecticut.....	4,219	5,546	7,177	8,129	6,755	7,695	7,299
Middle Atlantic.....	1,054,620	959,072	1,387,613	1,182,337	1,045,693	1,244,848	1,121,761
New York.....	62,502	73,528	89,975	95,435	102,036	112,016	111,580
New Jersey.....	47,429	62,936	72,602	75,271	76,761	77,066	73,058
Pennsylvania.....	944,689	823,148	1,225,036	1,011,631	867,196	1,055,766	937,123
East North Central.....	654,698	705,075	848,897	727,181	732,417	761,391	680,404
Ohio.....	223,534	236,800	287,869	249,050	247,507	253,884	226,731
Indiana.....	97,701	108,394	130,886	112,209	111,834	118,692	107,578
Illinois.....	254,019	244,618	282,761	235,796	231,659	237,242	180,288
Michigan.....	69,453	101,431	128,291	114,239	122,212	130,861	124,030
Wisconsin.....	9,991	13,823	19,090	15,797	19,205	20,712	21,777
West North Central.....	290,089	328,079	424,258	347,234	398,158	423,120	347,525
Minnesota.....	72,610	111,617	174,105	107,845	110,253	118,361	102,973
Iowa.....	35,640	36,205	46,175	40,460	38,420	35,972	33,426
Missouri.....	56,376	62,403	79,201	81,054	92,548	90,004	75,890
North Dakota.....	2,500	3,693	3,473	2,735	2,662	2,805	2,870
South Dakota.....	7,499	7,279	7,372	6,926	7,972	7,595	8,455
Nebraska.....	2,366	2,997	3,302	3,209	3,359	3,322	3,542
Kansas.....	113,098	108,885	110,630	105,005	142,944	165,061	120,369
South Atlantic.....	394,326	445,235	523,884	405,881	443,785	519,412	481,065
Delaware.....	380	428	416	512	539	378	493
Maryland.....	16,084	14,905	21,190	18,507	21,558	24,067	20,499
District of Columbia.....	412	869	930	814	955	987	1,375
Virginia.....	32,811	38,551	48,052	37,962	41,038	46,136	41,320
West Virginia.....	316,181	358,772	412,867	307,314	333,528	395,942	366,643
North Carolina.....	5,456	7,268	10,021	9,261	9,504	10,993	11,552
South Carolina.....	1,754	2,414	3,550	3,444	3,808	3,677	4,251
Georgia.....	8,650	11,120	14,300	14,947	16,504	17,480	16,766
Florida.....	12,598	10,908	12,558	13,120	16,651	19,752	18,096
East South Central.....	202,383	267,170	275,087	235,272	249,551	271,658	271,684
Kentucky.....	114,405	158,701	148,854	120,511	131,371	146,768	152,614
Tennessee.....	33,755	35,146	41,554	35,355	38,869	39,297	37,875
Alabama.....	52,269	61,723	82,496	77,316	77,139	83,710	78,641
Mississippi.....	1,954	1,600	2,163	2,090	2,172	1,883	2,554
West South Central.....	565,783	725,612	762,415	784,440	1,000,669	1,138,796	1,009,814
Arkansas.....	22,515	31,419	41,954	61,749	87,186	84,486	59,449
Louisiana.....	61,062	75,519	61,199	56,931	60,504	62,204	51,267
Oklahoma.....	269,853	369,070	398,811	393,031	501,767	509,519	524,595
Texas.....	212,303	249,604	260,451	272,729	351,212	420,587	374,503
Mountain.....	250,753	352,079	484,407	470,270	519,273	526,261	458,328
Montana.....	30,162	59,401	74,707	70,632	79,261	79,763	67,833
Idaho.....	16,502	18,496	27,105	27,832	31,611	31,753	29,184
Wyoming.....	51,365	58,529	77,665	75,494	78,755	78,988	56,167
Colorado.....	54,045	54,806	61,379	61,488	63,149	65,997	58,555
New Mexico.....	13,227	18,038	23,791	23,914	25,549	28,514	25,609
Arizona.....	30,818	63,738	104,940	100,327	114,203	115,048	100,559
Utah.....	40,596	60,697	86,221	84,357	100,275	98,955	90,368
Nevada.....	14,038	18,374	28,599	26,226	26,470	27,613	20,763
Pacific.....	319,832	308,627	403,718	456,699	527,132	551,550	486,425
Washington.....	17,006	19,725	22,169	21,159	22,382	21,257	21,966
Oregon.....	5,200	5,490	6,054	7,364	7,827	6,941	6,821
California.....	297,026	283,412	375,493	428,176	496,923	523,352	459,638
Alaska.....	117,041	19,507	20,241	17,362	18,286	17,607	14,402

Source: Bureau of Mines, Department of Commerce

# No. 730.—PRINCIPAL MINERAL PRODUCTS OF EACH STATE, IN ORDER OF VALUE IN 1927

## New England:

Maine—Stone, lime, clay products, slate  
 New Hampshire—Stone, clay products, sand and gravel, feldspar.  
 Vermont—Stone, slate, lime, talc  
 Massachusetts—Stone, clay products, sand and gravel, lime  
 Rhode Island—Stone, sand and gravel, clay products, lime  
 Connecticut—Stone, clay products, lime, sand and gravel

## Middle Atlantic

New York—Clay products, stone, cement, gypsum

New Jersey—Clay products, zinc, cement, stone  
 Pennsylvania—Coal, cement, clay products, natural gas

## East North Central:

Ohio—Clay products, coal, natural gas, stone  
 Indiana—Coal, stone, cement, clay products.  
 Illinois—Coal, clay products, petroleum, cement  
 Michigan—Iron ore, copper, cement, sand and gravel.  
 Wisconsin—Stone, zinc, sand and gravel, iron ore

## West North Central

Minnesota—Iron ore, stone, cement, clay products.  
 Iowa—Coal, cement, gypsum, clay products  
 Missouri—Lead, clay products, cement, coal  
 North Dakota—Coal, sand and gravel, clay products.  
 South Dakota—Gold, cement, stone, sand and gravel.  
 Nebraska—Sand and gravel, cement, clay products, stone  
 Kansas—Petroleum, zinc, natural gas, cement

## South Atlantic:

Delaware—Clay products, stone, sand and gravel  
 Maryland—Coal, clay products, cement, sand and gravel  
 District of Columbia—Sand and gravel, clay products, sand-lime brick, stone

## South Atlantic—Continued.

Virginia—Coal, cement, clay products, stone  
 West Virginia—Coal, natural gas, petroleum, clay products  
 North Carolina—Stone, clay products, sand and gravel, copper  
 South Carolina—Stone, clay products, sand and gravel, barite  
 Georgia—Stone, clay products, cement, fuller's earth  
 Florida—Phosphate rock, stone, fuller's earth, sand and gravel.

## East South Central

Kentucky—Coal, petroleum, clay products, natural gas  
 Tennessee—Coal, cement, stone, clay products.  
 Alabama—Coal, iron ore, cement, clay products.  
 Mississippi—Sand and gravel, clay products, natural gas, stone.

## West South Central:

Arkansas—Petroleum, coal, natural gas  
 Louisiana—Petroleum, natural gas, salt  
 Oklahoma—Petroleum, natural gas, zinc.  
 Texas—Petroleum, natural gas, sulphur.

## Mountain:

Montana—Copper, zinc, petroleum, coal  
 Idaho—Lead, silver, zinc, stone  
 Wyoming—Petroleum, coal, natural gas  
 Colorado—Coal, gold, zinc, lead  
 New Mexico—Copper, coal, zinc, petroleum  
 Arizona—Copper, gold, silver, lead  
 Utah—Copper, lead, coal, silver  
 Nevada—Copper, gold, silver, gypsum

## Pacific:

Washington—Coal, cement, clay products, sand and gravel  
 Oregon—Cement, stone, sand and gravel, clay products.  
 California—Petroleum, natural gas, cement.  
 Alaska—Copper, gold, coal, silver

# No. 731.—IRON ORE: PRODUCTION, SHIPMENTS, EXPORTS, AND IMPORTS

NOTE.—In thousands of long tons (2,240 pounds). Nearly all exports are to Canada. Blank spaces indicate lack of data. Since 1905 ore containing 5 per cent or more of manganese has been excluded

Yearly average or year	Produc- tion	Ship- ments	Ex- ports	Im- ports	Production	1925	1926	1927	1928
1801-1890-----	10, 385	-----	-----	766	REGION				
1891-1900-----	17, 551	-----	-----	587	Lake Superior 1...	52, 057	57, 143	51, 540	52, 517
1901-1910-----	41, 339	-----	271	1, 180	Birmingham-----	6, 636	6, 508	6, 295	6, 167
1911-1915-----	51, 595	50, 592	953	1, 841	All other-----	3, 216	3, 971	3, 906	3, 513
1916-1920-----	69, 737	70, 224	1, 143	967	STATE				
1921-1925-----	52, 429	52, 617	677	1, 691	Alabama-----	7, 093	6, 848	6, 445	6, 308
1912-----	55, 150	57, 018	1, 196	2, 105	Tennessee-----	165	139	122	129
1913-----	61, 980	59, 643	1, 042	2, 595	Michigan-----	14, 491	15, 248	15, 075	13, 677
1914-----	41, 440	39, 714	552	1, 351	Minnesota-----	36, 856	40, 702	35, 461	37, 504
1915-----	55, 526	55, 403	708	1, 341	Wisconsin-----	817	1, 323	1, 091	1, 285
1916-----	75, 168	77, 871	1, 184	1, 326	Pennsylvania-----	956	1, 096	1, 170	1, 029
1917-----	75, 289	75, 573	1, 132	972	New York-----	142	639	853	713
1918-----	69, 658	72, 021	1, 256	787	New Jersey-----	203	209	221	250
1919-----	60, 965	56, 373	997	476	Wyoming-----	490	600	603	491
1920-----	67, 604	69, 281	1, 145	1, 273	All other-----	696	790	699	756
1921-----	29, 491	26, 553	440	316	KIND				
1922-----	47, 129	50, 613	602	1, 135	Hematite-----	259, 547	2, 464, 635	2, 358, 606	2, 59, 208
1923-----	69, 351	69, 811	1, 117	2, 768	Brown ore-----	2, 835	2, 811	2, 743	817
1924-----	54, 267	52, 083	595	2, 047	Magnetite-----	1, 472	2, 175	2, 490	2, 171
1925-----	61, 908	63, 025	631	2, 191	Carbonate-----	5	2	2	2
1926-----	67, 623	69, 293	869	2, 555					
1927-----	61, 741	61, 232	859	2, 621					
1928-----	62, 197	63, 433	1, 282	2, 453					

<sup>1</sup> Includes only those mines in Wisconsin which are in true Lake Superior district

<sup>2</sup> Some hematite included with brown ore.

<sup>3</sup> Some hematite included with magnetite.

Source of Tables 730 and 731 Bureau of Mines, Department of Commerce.

## No. 732.—ANALYSIS OF PIG IRON AND FERRO-ALLOY PRODUCTION

[In thousands of long tons (2,240 pounds) unless otherwise specified]

	1900	1905	1910	1915	1920	1924	1925	1926	1927	1928
Total pig iron and ferro-alloys..	13,789	22,992	27,304	29,918	36,928	31,408	36,701	39,373	36,566	38,156
By States										
New England.....	14	16	17	8	10	-----	-----	2,729	2,775	2,563
New York, New Jersey.....	463	1,509	2,203	2,105	2,601	2,014	2,188	13,588	11,830	12,423
Pennsylvania.....	6,366	10,579	11,272	12,791	13,983	11,069	12,523	805	857	1,051
Maryland.....	290	352	326	252	524	558	705	103	99	-----
Virginia.....	401	510	445	251	429	98	125	2,953	2,783	2,546
Alabama.....	1,184	1,004	1,939	2,049	2,393	2,774	2,836	9,359	8,502	9,099
Ohio.....	2,471	4,586	5,752	6,913	8,533	7,415	8,863	3,660	3,589	3,942
Illinois.....	1,363	2,034	2,676	2,447	3,281	2,601	3,004	4,377	4,202	4,583
Indiana, Michigan.....	164	289	1,250	1,987	2,940	3,350	4,120	437	455	339
Wisconsin, Minnesota.....	185	351	307	373	711	357	408	1,260	1,474	1,610
All other.....	798	1,182	1,117	741	1,520	1,170	1,267	-----	-----	-----
By disposition:										
For sale.....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	8,583	10,724	8,411	8,991	9,760	9,494	8,304
For maker's use.....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	21,333	26,202	22,998	27,710	29,612	27,072	29,852
By kinds.										
Basic.....	1,072	4,105	9,085	13,093	16,738	15,999	19,667	21,168	19,357	22,124
Bessemer.....	7,979	12,407	11,246	10,523	12,062	8,172	9,419	10,042	9,106	9,014
Foundry (incl ferro-silicon).....	3,376	4,758	5,260	4,844	5,958	5,623	5,410	5,753	5,783	4,513
Malleable.....	173	635	843	830	1,311	973	1,554	1,682	1,709	1,923
Forge.....	793	728	564	316	318	256	241	216	145	88
Ferromanganese, spiegel- eisen, and all other.....	395	359	306	310	539	382	409	511	476	493
Pig iron and ferro-alloys by fuels:										
Coke.....	11,728	20,965	26,258	29,535	36,300	31,193	36,504	39,209	36,401	38,013
Anthracite.....	1,677	1,675	649	85	303	-----	-----	-----	-----	-----
Charcoal.....	384	353	397	296	323	213	196	164	165	143
Materials used										
Iron ore, briquettes, etc.....	24,131	41,525	51,739	55,137	66,450	55,675	65,450	\$ 68,228	\$ 63,298	\$ 65,352
Cinder, scale, etc.....	1,600	( <sup>1</sup> )	2,800	4,483	4,986	4,602	5,017	\$ 6,386	\$ 6,417	\$ 6,712
Coke (1,000 tons of 2,000 pounds).....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	33,329	42,046	34,335	39,296	\$ 39,709	\$ 37,373	\$ 38,363
Limestone.....	7,422	11,627	14,528	14,790	17,825	13,113	15,154	\$ 15,364	\$ 14,102	\$ 14,272
Total number of furnaces.....	406	424	473	445	452	425	395	379	364	334
Furnaces in blast Dec 31.....	232	313	206	310	216	235	238	210	178	208

<sup>1</sup> Not available.<sup>2</sup> Includes pig iron and ferro-alloys made in electric furnaces.<sup>3</sup> Materials consumed in manufacture of pig iron only.<sup>4</sup> Coke and bituminous coal prior to 1926.

Source American Iron and Steel Institute.

## No. 733.—PIG IRON: PRODUCTION (INCLUDING FERRO-ALLOYS), 1810-1901

NOTE.—For later years see Table 734 Tons are of 2,240 pounds

Year	Long tons	Year	Long tons	Year	Long tons	Year	Long tons	Year	Long tons
1810.....	53,908	1870.....	1,665,179	1878.....	2,301,215	1886.....	5,683,329	1894.....	6,657,388
1820.....	20,000	1871.....	1,706,793	1879.....	2,741,853	1887.....	6,417,148	1895.....	9,446,308
1830.....	165,000	1872.....	2,548,713	1880.....	3,835,191	1888.....	6,489,738	1896.....	8,623,127
1840.....	286,903	1873.....	2,560,963	1881.....	4,144,254	1889.....	7,003,642	1897.....	9,652,680
1850.....	563,755	1874.....	2,401,262	1882.....	4,623,323	1890.....	9,202,703	1898.....	11,773,934
1855.....	700,159	1875.....	2,023,733	1883.....	4,595,510	1891.....	8,279,870	1899.....	13,620,703
1860.....	821,223	1876.....	1,868,961	1884.....	4,097,868	1892.....	9,157,000	1900.....	13,789,242
1865.....	831,770	1877.....	2,066,594	1885.....	4,044,526	1893.....	7,124,502	1901.....	15,878,354

Source American Iron and Steel Institute

### No. 734.—PRODUCTION, EXPORTS, AND IMPORTS OF PIG IRON (INCLUDING FERRO-ALLOYS) AND PRODUCTION OF STEEL INGOTS AND CASTINGS

NOTE.—In long tons (2,240 pounds). Prior to 1901 exports and imports are for years ended June 30 following year specified, calendar years thereafter. All production figures are for calendar years.

Yearly average or year	Pig iron			Steel ingots and castings, production	Year	Pig iron			Steel ingots and castings, production
	Production	Exports of domestic	Imports			Production	Exports of domestic	Imports	
1871-1875.....	2,248,293	7,412	137,591	1,389,799	1912....	29,726,937	272,676	129,325	31,251,303
1876-1880.....	2,562,763	3,407	276,600	803,479	1913....	30,966,152	277,643	156,450	31,300,874
1881-1885.....	4,301,096	5,311	325,290	1,652,268	1914....	23,332,244	114,423	139,683	23,513,030
1886-1890.....	7,079,312	12,407	229,970	3,292,763	1915....	29,916,213	224,509	89,836	32,151,036
1891-1895.....	8,133,013	22,953	54,778	4,675,736	1916....	39,454,797	607,236	135,349	42,773,680
1896-1900.....	11,491,937	224,268	34,308	8,439,938	1917....	38,621,216	656,220	76,786	45,060,607
1901.....	15,878,354	81,211	62,930	13,473,595	1918....	39,064,644	269,575	34,711	44,462,432
1902.....	17,821,307	27,487	619,354	14,947,250	1919....	31,015,364	321,261	101,665	34,671,232
1903.....	18,009,252	20,379	599,574	14,534,978	1920....	36,925,987	216,828	185,944	42,132,934
1904.....	16,497,033	49,025	79,500	13,859,887	1921....	16,688,126	28,405	44,842	19,783,797
1905.....	22,992,380	49,221	212,466	20,023,947	1922....	27,219,904	33,332	498,059	35,602,926
1906.....	25,307,191	83,317	379,828	23,398,136	1923....	40,861,146	37,559	474,723	44,943,696
1907.....	25,781,361	73,703	489,475	23,362,594	1924....	31,405,790	45,818	276,966	37,931,939
1908.....	15,936,018	46,696	92,202	14,023,247	1925....	36,700,566	39,907	516,948	45,893,524
1909.....	25,795,471	61,989	176,442	23,955,021	1926....	39,372,729	28,606	514,288	48,298,763
1910.....	27,303,567	127,385	237,233	26,094,919	1927....	36,565,645	55,899	175,529	44,935,185
1911.....	28,649,547	120,799	148,459	23,676,106	1928....	38,155,714	96,743	194,689	51,544,180

<sup>1</sup> 1875 only

### No. 735.—PRODUCTION OF ROLLED AND MISCELLANEOUS STEEL PRODUCTS

NOTE.—In thousands of long tons (2,240 pounds) unless otherwise specified. Blank spaces indicate figures not available. The miscellaneous products, except cast-iron pipe, are for the most part further elaborations of the rolled products listed above.

	1905	1910	1915	1920	1925	1926	1927	1928
<b>Rolled products, total.....</b>	<b>16,840</b>	<b>21,621</b>	<b>24,393</b>	<b>32,348</b>	<b>33,387</b>	<b>35,496</b>	<b>32,879</b>	<b>37,663</b>
<b>Rails.....</b>	<b>3,378</b>	<b>3,636</b>	<b>2,204</b>	<b>2,604</b>	<b>2,785</b>	<b>3,218</b>	<b>2,806</b>	<b>2,647</b>
Bessemer.....	3,192	1,884	327	143	10	13	2	3
Open hearth.....	183	1,751	1,775	2,334	2,692	3,108	2,718	2,580
Reroled.....			102	127	84	97	87	64
<b>Sheets and plates.....</b>	<b>3,532</b>	<b>4,955</b>	<b>6,078</b>	<b>9,838</b>	<b>9,808</b>	<b>10,529</b>	<b>9,628</b>	<b>11,006</b>
Universal.....			955	1,250	1,196	1,408	1,257	1,304
Sheared.....			1,923	3,505	2,557	2,794	2,446	2,609
Black sheets <sup>1</sup> .....			1,837	2,886	4,097	4,237	3,997	4,962
Black plates for tanning.....			1,093	1,449	1,632	2,090	1,928	2,130
Other black-plate specialties.....			270	247	325			
Nail and spike plate.....	65	45	32	21	22	17	18	16
Wire rods.....	1,809	2,242	3,096	3,137	2,845	2,722	2,770	3,081
Structural shapes.....	1,661	2,267	2,437	3,307	3,604	3,912	3,742	4,096
Merchant bars.....	3,594	3,786	4,131	6,130	5,659	5,474	4,870	6,278
Skeip.....	1,436	1,828	2,299	3,220	3,230	3,765	3,419	3,369
Hoops.....	446	262	282	333	205	190	176	176
Bands and cotton ties.....		425	438	389	356	356	323	384
Bands and tie-plate bars.....			536	576	823	954	865	798
Rolled forging blooms, billets, etc.....	42	460	651	447	345	363	286	554
All other rolled products.....	881	1,715	2,203	2,846	3,726	3,996	3,977	5,257
<b>Miscellaneous products:</b>								
Tin plate (million pounds).....		1,450	2,202	3,080	3,459	3,750	3,513	3,673
Terneplates (million pounds).....		168	163	158	255	242	235	278
Galvanized sheets (million pounds).....			1,532	1,871	2,539	2,788	2,768	3,041
Galvanized formed products (million pounds).....			112	144	178	155	169	172
Wire nails (thousands of kegs) <sup>2</sup> .....	10,855	12,705	14,583	16,450	15,464	14,869	14,389	14,234
Cut nails (thousands of kegs) <sup>3</sup> .....	1,358	1,005	775	845	736	662	703	620
Wrought pipe, incl boiler tubes.....			1,920	3,003	3,031	3,403	3,117	2,924
Boiler tubes.....			87	119	63	61	47	59
Seamless steel tubes.....			140	292	568	775	864	1,079
Cast-iron pipe (1,000 short tons) <sup>4</sup> .....			1,215	887	1,925	2,004	1,970	1,872
Forgings made by rolling mills.....		320	524	540	388	452	356	625

<sup>1</sup> Rolled on sheet or jobbing mills.

<sup>2</sup> Small structural forms not included.

<sup>3</sup> Of 100 pounds.

<sup>4</sup> Of 2,000 pounds.

Source of Tables 734 and 735 American Iron and Steel Institute



## No. 736.—PRODUCTION, EXPORTS, AND IMPORTS OF FINISHED ROLLED IRON AND STEEL

NOTE.—In long tons (2,240 pounds) Blank spaces indicate that figures are not available

Yearly average or year (calendar year)	Total production, finished rolled prod- ucts	Rails			Plates and sheets		
		Production	Exports	Imports	Production	Exports	Imports
1876-1880.....		911,095	4,441	59,851			
1881-1885.....		1,273,688	3,986	116,972			
1886-1890.....	<sup>1</sup> 5,278,214	1,710,278	7,275	49,775	<sup>1</sup> 684,814		8,013
1891-1895.....	5,472,849	1,264,677	13,650	1,047	755,878	1,510	23,894
1896-1900.....	5,162,560	1,881,905	222,518	2,399	1,403,879	30,965	4,771
1901-1905.....	13,670,907	2,895,138	225,746	43,207	2,604,025	39,505	6,167
1906-1910.....	18,509,490	3,238,486	303,234	3,963	4,054,102	158,591	4,096
1908.....	11,828,193	1,921,015	196,510	1,719	2,649,693	104,993	2,629
1909.....	19,644,690	3,023,845	299,540	1,542	4,234,346	180,047	4,720
1910.....	21,621,279	3,636,031	353,180	7,861	4,955,484	274,521	6,152
1911.....	19,039,171	2,822,790	420,874	3,414	4,488,049	372,373	2,453
1912.....	24,656,841	3,327,915	446,473	3,780	5,875,080	546,521	3,299
1913.....	24,791,243	3,502,780	460,553	10,408	5,751,037	463,426	2,833
1914.....	18,370,196	1,945,095	174,680	22,571	4,719,246	280,095	4,310
1915.....	24,392,924	2,204,203	391,379	78,525	6,077,694	419,604	1,420
1916.....	32,380,389	2,854,518	540,828	26,299	7,453,980	515,558	1,730
1917.....	33,807,330	2,944,161	512,669	9,263	8,267,616	851,529	1,748
1918.....	31,155,754	2,540,892	453,537	8,705	8,799,135	854,136	1,517
1919.....	25,101,544	2,203,843	652,443	17,098	7,372,814	1,042,697	1,095
1920.....	32,847,863	2,604,116	594,628	45,684	9,537,680	1,273,558	1,792
1921.....	14,774,006	2,178,818	321,822	22,048	4,260,574	607,370	1,976
1922.....	26,452,004	2,171,776	277,090	26,629	7,968,397	439,417	<sup>2</sup> 1,947
1923.....	33,277,076	2,904,516	267,409	29,706	9,497,717	386,405	<sup>2</sup> 4,872
1924.....	28,086,435	2,433,332	208,496	43,358	8,087,883	360,540	<sup>2</sup> 6,066
1925.....	33,386,960	2,785,257	151,690	36,872	9,807,659	386,912	<sup>2</sup> 4,480
1926.....	35,495,892	3,217,649	187,557	55,212	10,529,056	517,611	<sup>2</sup> 15,616
1927.....	32,879,031	2,806,486	177,593	15,455	9,627,734	468,511	<sup>2</sup> 19,760
1928.....	37,662,916	2,647,493	190,925	14,019	11,006,050	522,650	<sup>2</sup> 30,800

  

Yearly average or year (calendar year)	Nail-plate production	Wire rods			Structural shapes			All other finished rolled production
		Production	Exports	Imports	Production	Exports	Imports	
1891-1895.....	152,803	633,248		34,804	<sup>3</sup> 429,872			2,322,406
1896-1900.....	73,328	909,819	<sup>4</sup> 16,182	13,087	689,419	<sup>4</sup> 48,877		3,139,210
1901-1905.....	66,406	1,590,280	16,345	18,390	904,991	55,651	<sup>4</sup> 12,886	5,220,667
1906-1910.....	52,205	2,056,732	13,403	15,400	1,936,951	121,086	11,107	7,171,013
1908.....	45,747	1,816,949	7,412	11,209	1,083,181	116,881	3,623	4,311,608
1909.....	63,746	2,335,685	20,142	10,544	2,275,562	90,830	6,146	7,711,506
1910.....	45,294	2,241,830	22,869	20,374	<sup>5</sup> 2,266,890	146,721	14,897	8,475,570
1911.....	48,522	2,450,453	22,641	15,483	<sup>5</sup> 1,912,367	223,493	5,343	7,316,990
1912.....	45,331	2,653,553	64,978	15,069	2,846,487	288,164	3,120	9,908,475
1913.....	37,503	2,464,807	61,637	16,098	3,004,972	403,264	11,659	10,030,144
1914.....	38,573	2,431,714	61,856	6,954	2,031,124	182,395	10,145	7,204,444
1915.....	31,929	3,095,907	165,014	5,317	2,437,003	232,139	1,494	10,546,188
1916.....	30,088	3,518,746	158,284	4,130	3,029,964	300,594	1,473	15,493,993
1917.....	22,364	3,137,188	181,941	1,060	3,110,000	294,150	6,216	15,885,921
1918.....	18,310	2,562,390	148,523	7,677	2,849,969	232,729	3,504	14,385,058
1919.....	12,832	2,538,476	118,010	342	2,614,036	360,787	1,154	10,359,543
1920.....	20,877	3,136,907	116,775	5,488	3,306,748	493,633	1,685	13,941,835
1921.....	14,673	1,564,330	18,963	917	1,272,624	297,022	777	8,483,087
1922.....	21,969	2,654,741	40,424	1,735	2,718,768	167,585	7,823	10,916,353
1923.....	22,833	3,075,892	40,868	3,948	3,405,197	199,021	10,674	14,370,921
1924.....	22,175	2,522,545	18,762	6,851	3,283,708	167,910	43,245	11,736,792
1925.....	22,038	2,844,656	21,207	7,988	3,604,130	169,252	77,291	14,323,220
1926.....	17,337	2,722,032	19,646	10,075	3,911,663	233,059	121,100	15,098,155
1927.....	18,051	2,770,271	16,127	17,988	3,742,445	215,226	161,849	13,914,044
1928.....	16,200	3,080,816	38,619	19,298	4,096,143	296,885	163,762	16,810,214

<sup>1</sup> Average for years 1887-1890<sup>2</sup> Includes skelp<sup>3</sup> Average for years 1892-1895<sup>4</sup> Average for period July 1, 1897, to Dec 31, 1900<sup>5</sup> Average for period July 1, 1903, to Dec 31, 1905.<sup>6</sup> Small structural forms not included.

Source American Iron and Steel Institute (exports and imports compiled from Government statistics)

## No. 737.—PRODUCTION OF STEEL INGOTS AND CASTINGS, BY GRADES

NOTE—In long tons (2,240 pounds). Blank spaces indicate that figures are not available

Year	Total	Bessemer	Open hearth			Crucible	Electric	Miscellaneous
			Total	Basic	Acid			
1890.....	4,277,071	3,688,871	513,232	—	—	71,175	—	3,793
1900.....	10,188,329	6,684,770	3,398,135	2,545,091	853,044	100,562	—	4,862
1905.....	20,023,947	10,941,375	8,971,376	7,815,728	1,155,648	102,233	—	8,963
1910.....	26,094,919	9,412,772	16,504,509	15,292,329	1,212,180	122,303	52,141	3,194
1915.....	32,151,036	8,287,213	23,679,102	22,308,735	1,370,377	113,782	69,412	1,527
1920.....	42,132,934	8,883,987	32,671,895	31,375,723	1,296,172	72,265	502,152	3,535
1925.....	45,393,524	6,723,962	38,034,488	37,087,342	947,146	19,562	615,512	—
1926.....	48,293,763	6,934,568	40,691,979	39,653,315	1,038,664	15,493	651,723	—
1927.....	44,935,185	6,191,727	38,068,335	37,144,268	924,067	9,036	606,087	—
1928.....	51,544,180	6,620,195	44,113,956	43,200,483	913,473	7,769	802,260	—

Source: American Iron and Steel Institute

## No. 738.—PRODUCTS OF STEEL WORKS AND ROLLING MILLS AND OF THE WIRE, TIN-PLATE, AND CAST-IRON PIPE INDUSTRIES

NOTE—The overlapping of the industries shown in this table results in considerable duplication in tonnages shown. The products chiefly used further in manufacture are wire rods, plates and sheets, black plates for tinning, and skelp. The figures given under "Wire" and "Tin and teneplate" include data for products of these departments of steel works and rolling mills and of all other industries producing these commodities. The original census tables contain much fuller detail as to the disposition of semifinished products.

Industry and product	Quantity in thousands of tons of 2,240 pounds			Value in thousands of dollars		
	1923	1925	1927	1923	1925	1927
<b>STEEL WORKS AND ROLLING MILLS</b>						
All products, total value.....				3,154,325	2,946,068	2,773,840
Unrolled steel, total.....	44,521	45,119	44,757			
Ingots—						
For sale and interplant transfer.....	551	535	437	13,885	16,360	12,670
Produced and consumed in works.....	42,850	43,576	43,337			
Direct steel castings—						
For sale and interplant transfer.....	1,054	938	888	162,611	144,415	145,085
Produced and consumed in work.....	66	70	95			
Semifinished rolled products, for sale and interplant transfer, total.....	11,434	11,388	10,307	455,460	405,412	346,051
Blooms, billets, and slabs, except for forging.....	7,133	6,828	6,161	280,692	243,233	205,828
Rolled blooms and billets for forging.....	135	153	113	8,522	7,283	4,690
Hammered charcoal blooms, billets, etc.....	4	3	1	372	272	80
Sheet and tin-plate bars.....	4,063	4,351	3,985	159,810	151,756	133,094
Muck and scrap bar.....	99	53	47	6,064	2,768	2,359
Finished rolled products and forgings, total.....	34,452	32,647	32,154			
Produced and consumed in works.....	9,075	8,145	8,416			
For sale and interplant transfer.....	25,377	24,502	23,738	1,545,528	1,373,049	1,251,788
Rails.....	2,728	2,693	2,703	113,644	114,334	114,565
Rail joints, fastenings, tie plates, etc.....	768	815	893	43,193	46,724	50,394
Structural shapes (not fabricated).....	3,291	3,413	3,502	161,749	154,814	143,339
Concrete reinforcing bars.....	617	709	783	32,446	35,073	35,410
Merchant bars, mill shafting, etc.....						
Steel.....	5,076	4,933	4,249	316,517	301,604	240,469
Iron.....	400	255	202	29,419	16,896	13,582
Bolt and nut rods, spike and chain rods, etc.....	92	63	95	5,237	3,312	4,331
Wire rods.....	1,236	1,105	1,024	62,003	54,713	46,059
Plates No. 12 and thicker.....	4,222	3,862	3,781	220,454	180,668	164,513
Sheets No. 13 and thinner.....	2,726	2,914	2,982	249,090	234,438	227,683
Skelp.....	1,383	1,280	1,241	69,215	54,431	50,604
Hoops, bands, strips, and cotton ties <sup>1</sup> .....	1,315	1,435	1,265	102,597	86,048	60,351
Axles.....	197	135	119	15,408	11,387	10,737
Armor plate and ordnance.....	9	1	8	1,021	424	2,613
Car and locomotive wheels.....	237	147	155	23,345	15,345	15,197
All other rolled and forged products <sup>2</sup> .....	1,080	742	736	99,290	62,833	60,891
Scrap iron and steel, for sale and interplant transfer.....						
All other (including value added to rolled products by further manufacture).....	2,218	2,219	2,448	37,100	37,627	35,750
				934,741	969,205	988,487

<sup>1</sup> Includes a considerable tonnage of cold rolled steel for years 1923 and 1925, but none for 1927.<sup>2</sup> Includes "nail and tack plate" not shown separately to avoid disclosing the individual operations

**No. 738.—PRODUCTS OF STEEL WORKS AND ROLLING MILLS, AND OF THE WIRE, TIN-PLATE, AND CAST-IRON PIPE INDUSTRIES—Continued**

Industry and product	Quantity in thousands of unit specified				Value in thousands of dollars		
	Unit	1923	1925	1927	1923	1925	1927
WIRE AND WIRE PRODUCTS (ALL METALS)							
All industries, total value.....					691, 909	702, 039	694, 713
Iron and steel wire:							
Plain wire, total <sup>3</sup> .....	Ton <sup>4</sup>	3, 125	2, 963	2, 865			
For sale and interplant transfer.....	do.	912	906	907	73, 999	71, 842	67, 618
Produced and consumed in works.....	do.	2, 213	2, 057	1, 958			
Galvanized wire: For sale and interplant transfer.....	do.	331	249	250	23, 011	17, 246	17, 035
Other coated wire. For sale and interplant transfer.....	do.	54	42	45	6, 383	5, 198	6, 368
Cold-rolled flat wire For sale and interplant transfer.....	do.	140	151	150	10, 693	18, 859	18, 543
Copper wire:							
For sale and interplant transfer.....	Lb.	487, 400	504, 429	491, 819	84, 786	85, 507	77, 090
Produced and consumed in works.....	do.	( <sup>5</sup> )	( <sup>5</sup> )	294, 745			
Brass wire:							
For sale and interplant transfer.....	do.	68, 038	64, 138	60, 844	16, 460	12, 228	11, 693
Produced and consumed in works.....	do.	( <sup>5</sup> )	( <sup>5</sup> )	3, 086			
Other metal wire:							
For sale and interplant transfer.....	do.	29, 461	45, 589	34, 117	9, 904	13, 683	12, 009
Produced and consumed in works.....	do.	( <sup>5</sup> )	( <sup>5</sup> )	7, 209			
Fabricated wire products for sale							
Iron and steel—							
Nails and spikes.....	Keg <sup>6</sup>	18, 161	15, 977	14, 819	64, 880	53, 623	48, 002
Brads and tacks <sup>7</sup> .....	Lb.	3, 967	7, 350	7, 135	428	809	690
Staples.....	do.	63, 644	53, 427	49, 379	2, 373	1, 853	1, 596
Barbed wire.....	Ton <sup>4</sup>	256	248	202	19, 276	16, 659	12, 973
Rope, cable, and strand.....	( <sup>8</sup> )	( <sup>8</sup> )	( <sup>8</sup> )	( <sup>8</sup> )	44, 217	46, 684	46, 916
Woven-wire fence and poultry netting, plain and coated.....	( <sup>8</sup> )	( <sup>8</sup> )	( <sup>8</sup> )	( <sup>8</sup> )	50, 728	41, 969	43, 738
Wire cloth.....	( <sup>8</sup> )	( <sup>8</sup> )	( <sup>8</sup> )	( <sup>8</sup> )	28, 832	24, 189	14, 225
Other woven wire.....	( <sup>8</sup> )	( <sup>8</sup> )	( <sup>8</sup> )	( <sup>8</sup> )			5, 442
Bale ties.....	( <sup>8</sup> )	( <sup>8</sup> )	( <sup>8</sup> )	( <sup>8</sup> )	45, 688	57, 753	4, 580
Wire springs.....	( <sup>8</sup> )	( <sup>8</sup> )	( <sup>8</sup> )	( <sup>8</sup> )			30, 660
Other fabricated iron and steel wire products.....	( <sup>8</sup> )	( <sup>8</sup> )	( <sup>8</sup> )	( <sup>8</sup> )			41, 868
Copper-wire products—							
Wire cloth.....	( <sup>8</sup> )	( <sup>8</sup> )	( <sup>8</sup> )	( <sup>8</sup> )	6, 740	8, 942	2, 213
Other fabricated copper wire products, except insulated.....	( <sup>8</sup> )	( <sup>8</sup> )	( <sup>8</sup> )	( <sup>8</sup> )			10, 970
Brass-wire products, not including wire cloth.....	( <sup>8</sup> )	( <sup>8</sup> )	( <sup>8</sup> )	( <sup>8</sup> )	10, 039	14, 378	3, 629
Other (bronze and other alloys except brass) wire products, not including wire cloth.....	( <sup>8</sup> )	( <sup>8</sup> )	( <sup>8</sup> )	( <sup>8</sup> )			224
Wire cloth of brass, bronze, and other alloys.....	( <sup>8</sup> )	( <sup>8</sup> )	( <sup>8</sup> )	( <sup>8</sup> )			6, 583
Insulated wire and cable.....	( <sup>8</sup> )	( <sup>8</sup> )	( <sup>8</sup> )	( <sup>8</sup> )	184, 472	210, 617	210, 048
TIN PLATE AND TERNEPLATE							
All products, total value.....					165, 587	190, 918	193, 894
Tin plate.....	Lb.	3, 159, 251	3, 480, 401	3, 560, 417	154, 636	179, 382	180, 410
Terneplate.....	do.	137, 301	181, 436	193, 056	7, 840	9, 229	10, 016
All other products.....	do.				3, 111	2, 307	3, 468
CAST-IRON PIPE INDUSTRY							
All products, total value.....					92, 674	100, 388	95, 283
Gas and water pipe and fittings.....	Ton <sup>4</sup>	1, 140	1, 437	1, 505	63, 916	71, 192	65, 549
Soil and plumbers' pipe and fittings.....	do.	425	469	489	24, 033	23, 579	25, 688
Castings, other.....	do.	23	26	24	2, 810	2, 891	1, 960
All other.....					1, 915	2, 726	2, 086

<sup>3</sup> Quantity of all iron and steel wire, including that subsequently galvanized, otherwise coated and cold rolled

<sup>4</sup> Of 2,000 pounds.

<sup>5</sup> No comparable data

<sup>6</sup> Of 100 pounds

<sup>7</sup> Not including value of brads and tacks made from tack plate.

<sup>8</sup> Complete data not available, see original census reports

<sup>9</sup> Includes cast-iron pipe made as a secondary product in other industries Figures for prior years do not include such products.

Source Bureau of the Census, Department of Commerce

## No. 739.—BLAST FURNACES AND STEEL MILLS: CENSUS STATISTICS

NOTE.—The scope of the industry "Steel works and rolling mills" is indicated by Table 738

Year	Number of establishments	Wage earners (average number)	Wages	Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>	Primary horsepower
			Thousands of dollars			
1879-----	792	<sup>2</sup> 140, 798	<sup>3</sup> 55, 451	296, 558	105, 287	(4)
1889-----	719	171, 181	89, 273	478, 688	151, 415	784, 358
1899-----	668	222, 490	120, 820	803, 968	281, 569	1, 598, 073
1904-----	605	242, 640	141, 427	905, 788	285, 642	2, 422, 577
1909-----	654	278, 505	187, 807	1, 377, 152	399, 013	3, 274, 400
1914-----	587	278, 072	210, 923	1, 236, 319	380, 913	<sup>4</sup> 3, 025, 869
1919-----	695	416, 748	711, 407	3, 623, 369	1, 321, 507	<sup>5</sup> 5, 399, 574
1921-----	628	254, 213	354, 357	1, 901, 431	535, 256	(4)
1923-----	658	424, 913	696, 761	4, 161, 938	1, 289, 910	5, 999, 941
1925-----	595	399, 914	660, 297	3, 711, 354	1, 281, 976	6, 143, 927
1927-----	602	389, 270	645, 534	3, 488, 744	1, 219, 534	6, 781, 058
Blast furnaces						
1925-----	122	29, 188	45, 312	765, 286	147, 869	1, 380, 394
1927-----	116	27, 958	44, 258	708, 904	129, 349	(4)
Steel works and rolling mills						
1925-----	473	370, 726	614, 985	2, 946, 068	1, 134, 107	4, 763, 533
1927-----	486	361, 312	601, 275	2, 779, 840	1, 090, 185	<sup>6</sup> 6, 781, 058

<sup>1</sup> Includes much duplication<sup>2</sup> Value of products less cost of materials.<sup>3</sup> Returns were not secured for number of salaried employees and it is probable that "wages" included amounts paid for salaries, and "wage earners" may have included some salaried employees.<sup>4</sup> No data<sup>5</sup> This total differs slightly from the corresponding one published in previous reports because of the exclusion here and the inclusion in previous reports of data for rented power other than electric.<sup>6</sup> Blast furnace data are included with steel works and rolling mills.

Source: Bureau of the Census, Department of Commerce.

No. 740.—AGGREGATE DOMESTIC EXPORTS OF HEAVY IRON AND STEEL<sup>1</sup>

NOTE.—Prior to 1922, the small items for which quantity is not available are excluded while in later years all items are included. Ferromanganese is included for all years

[Quantities in thousands of long tons (2,240 pounds); values in thousands of dollars]

Year	Quantity	Value	Year	Quantity	Value	Year	Quantity	Value
1890.....	52	-----	1910.....	1, 538	63, 436	1922.....	1 995	136, 334
1895.....	89	-----	1911.....	2, 188	86, 599	1923.....	2, 010	167, 247
1900.....	1, 154	42, 518	1912.....	2, 948	112, 535	1924.....	1, 806	150, 494
1901.....	701	29, 050	1913.....	2, 746	108, 875	1925.....	1, 763	144, 262
1902.....	372	15, 889	1914.....	1, 550	63, 409	1926.....	2, 167	174, 145
1903.....	327	14, 533	1915.....	3, 533	140, 993	1927.....	2, 183	160, 609
1904.....	1, 168	35, 248	1916.....	6, 101	353, 971	1928.....	2, 865	179, 888
1905.....	1, 010	33, 813	1917.....	6, 439	567, 041	Percent change from 1927..		
1906.....	1, 326	52, 215	1918.....	5, 375	558, 279			
1907.....	1, 302	60, 046	1919.....	4, 400	410, 164			
1908.....	964	43, 397	1920.....	4, 935	458, 376			
1909.....	1, 244	50, 777	1921.....	2, 213	214, 830			

<sup>1</sup> Beginning with 1922 the small item "steam and hot water heating boilers and radiators" is omitted.

Source: Bureau of Foreign and Domestic Commerce, Department of Commerce.

## No. 741.—EXPORTS OF HEAVY IRON AND STEEL PRODUCTS

NOTE.—This and Tables 740 and 742 exclude the highly elaborated manufactures of iron and steel

Articles	Quantity in long tons (2,240 pounds)				Value in thousands of dollars			
	1925	1926	1927	1928	1925	1926	1927	1928
Total.....	1,783,551	2,166,650	2,183,091	2,865,108	144,262	174,145	180,609	179,898
Pig iron, not including ferro-alloys.....	32,674	25,208	50,992	84,682	725	524	1,028	1,367
Permanganese and spiegeleisen.....	5,496	693	1,641	9,440	161	44	62	233
Scrap.....	82,573	104,838	239,159	516,139	1,377	1,794	3,765	6,615
Ingot, blooms, billets, sheet bars, and skelp.....	87,479	100,954	98,613	161,855	3,892	4,555	4,344	6,617
Iron bars.....	4,616	5,171	3,872	6,229	425	445	345	492
Steel bars.....	111,950	137,771	111,126	158,475	7,605	8,935	6,988	9,114
Alloy steel bars.....	3,692	4,945	6,149	14,079	703	923	917	1,487
Wire rods.....	21,207	19,646	16,128	38,617	1,082	1,086	883	1,731
Galvanized sheets.....	160,269	178,635	152,181	152,280	16,842	18,302	15,498	14,664
Plates, iron and steel.....	104,448	138,260	139,632	166,269	6,205	7,602	7,024	8,400
Black steel sheets.....	95,483	175,740	152,525	179,286	8,211	14,195	12,188	13,576
Black iron sheets.....	14,771	19,253	17,147	16,289	1,473	2,024	1,663	1,634
Hoop, band, and strip steel.....	40,938	46,914	43,159	58,080	3,124	3,453	3,061	3,979
Tin plate, terneplate, etc.....	161,885	250,782	253,890	219,642	18,587	28,766	29,062	26,317
Structural shapes, plain material.....	104,339	157,121	148,176	202,804	5,470	7,655	6,554	8,754
Structural materials, fabricated.....	73,463	77,285	69,423	92,758	5,793	6,952	5,912	8,112
Metal lath.....	3,441	4,376	4,666	5,358	577	729	779	830
Steel rails.....	151,690	187,557	177,586	190,905	6,155	7,643	6,783	6,926
Rail fastenings, switches, frogs, etc.....	35,367	41,771	34,372	41,995	3,250	3,344	3,155	3,453
Boiler tubes and welded pipe.....	229,792	275,452	248,473	248,895	22,818	26,522	23,299	23,327
Cast-iron pipe and fittings.....	32,206	34,111	27,975	33,979	3,901	4,094	3,426	3,427
Malleable-iron screwed pipe fittings.....	9,886	12,367	10,061	10,034	2,825	3,434	3,086	2,819
Barbed-wire and woven-wire fencing.....	71,117	50,721	52,393	74,335	5,234	3,719	3,762	5,015
Plain wire.....	35,598	31,812	35,435	46,177	3,190	2,710	2,843	3,467
Wire cloth and screening.....	1,854	1,989	2,285	1,834	744	746	827	628
Wire rope.....	4,376	4,779	5,547	5,367	1,258	1,446	1,342	1,578
Insulated wire and cable.....	642	738	491	640	268	276	191	217
Wire, other, and manufactures thereof.....	8,376	8,933	9,558	9,812	1,991	1,983	1,894	2,145
Wire nails.....	9,838	11,743	9,990	14,547	834	885	763	956
Nails other than wire, including tacks.....	9,237	7,925	8,429	9,892	1,776	1,635	1,655	1,684
Horseshoes.....	709	660	563	468	116	102	91	73
Bolts, nuts, rivets, and washers.....	16,952	13,221	12,228	13,278	2,819	2,400	2,196	2,537
Car wheels and axles.....	19,935	16,679	16,661	17,139	1,734	1,487	1,273	1,809
Iron castings.....	10,412	8,839	11,724	12,061	1,421	1,276	1,553	1,618
Steel castings.....	4,210	7,566	7,003	9,710	1,122	1,529	1,808	2,551
Forgings.....	2,171	2,645	4,868	11,703	556	533	827	2,308

¹ Except track.

## No. 742.—IRON AND STEEL: EXPORTS BY DESTINATIONS

NOTE.—All figures in long tons (2,240 pounds). Products covered are those listed in Table 741

Country	1926	1927	1928	Country	1926	1927	1928
Belgium.....	5,548	6,609	14,079	Colombia.....	71,142	59,080	64,843
France.....	10,393	4,586	9,115	Ecuador.....	1,497	1,829	3,296
Germany.....	1,115	10,794	22,628	Peru.....	37,819	32,207	26,543
Italy.....	23,486	41,833	90,011	Uruguay.....	7,508	11,393	9,088
Netherlands.....	5,509	12,099	2,332	Venezuela.....	68,116	45,667	80,469
Norway.....	4,731	4,167	4,378	India and Ceylon.....	37,336	28,497	25,500
Spain.....	2,520	3,578	1,483	British Malaya.....	15,520	8,444	6,457
United Kingdom.....	68,809	66,915	54,069	China.....	46,054	53,843	92,537
Canada.....	833,856	832,213	1,173,063	Netherland East Indies.....	41,028	35,258	40,726
Central America.....	49,709	45,301	43,852	Hong Kong.....	2,461	8,951	5,515
Mexico.....	100,837	51,747	83,116	Japan.....	260,361	278,206	411,754
British West Indies.....	10,539	12,384	7,651	Kwantung.....	20,247	19,293	14,021
Cuba.....	94,768	92,486	65,205	Philippine Islands.....	57,554	63,343	84,217
Dominican Republic.....	7,399	9,930	6,722	Australia.....	33,353	26,670	19,633
Argentina.....	60,105	82,380	98,443	New Zealand.....	3,378	1,291	2,305
Brazil.....	62,542	70,633	83,900	British South Africa.....	9,393	10,403	7,419
Chile.....	61,642	44,641	69,875				

Source of Tables 741 and 742: Bureau of Foreign and Domestic Commerce, Department of Commerce.

## No. 743.—IRON AND STEEL: AVERAGE ANNUAL PRICES

[Prices of pig iron, rails, and billets in dollars per long ton (2,240 pounds); other prices in dollars per 100 pounds]

Year	Pig iron				Rails at mills in Penn- syl- vania <sup>2</sup>	Bes- semer steel billets, Pitts- burgh	Soft- steel bars, Pitts- burgh	Iron bars, Pitts- burgh <sup>3</sup>	Tank plates, Pitts- burgh	Beams, Pitts- burgh	Com- posite finished steel
	Bes- semer, Pitts- burgh	Basic, The Val- leys	South- ern, No. 2, Cincin- nati	Local, No. 2, Chi- cago <sup>1</sup>							
1891-1895	13 46	-----	11 74	12 80	27 27	20 89	-----	1.46	-----	-----	-----
1896-1900	14 22	-----	12 56	14 30	24 96	21 08	<sup>4</sup> 1.46	1.50	1.61	<sup>4</sup> 1.63	-----
1901	15 93	-----	13 61	15 38	27.33	24 13	1.42	1.80	1.55	1.58	-----
1902	20 67	-----	20.00	20.86	28 00	30 57	1.58	1.94	1.70	1.81	-----
1903	18.98	-----	17 08	19 25	28 00	27 91	1.56	1.77	1.61	1.62	-----
1904	13 76	-----	12 73	14.37	28 00	22 18	1.33	1.48	1.54	1.64	1.71
1905	16 36	15 25	15 57	17 65	28 00	24 03	1.48	1.87	1.58	1.62	1.76
1906	19.54	18 10	18.37	20 43	28 00	27.45	1.51	1.93	1.61	1.70	1.77
1907	22 84	20 87	23 10	24.50	28 00	29 35	1.60	1.94	1.70	1.79	1.92
1908	17.07	15 16	15 54	17 57	28 00	26 31	1.49	1.64	1.64	1.64	1.86
1909	17 41	15 48	16 12	17.49	28 00	24 62	1.33	1.62	1.42	1.42	1.63
1910	17 19	14 76	15 16	17 09	28 00	25 38	1.44	1.65	1.47	1.45	1.66
1911	15.71	13 07	13 67	14 83	28 00	21 46	1.26	1.41	1.31	1.32	1.54
1912	15 94	13 92	14 93	15 32	28 00	22 38	1.29	1.44	1.33	1.32	1.53
1913	17 13	14.71	14 90	15 85	28 00	25 79	1.55	1.69	1.50	1.50	1.66
1914	14.89	12.87	13 41	13 60	30 00	20 09	1.15	1.32	1.14	1.15	1.43
1915	15 78	13.74	13 57	14 01	30 00	22 44	1.31	1.48	1.31	1.30	1.53
1916	23 86	19 76	18 67	20 26	34 00	43 95	2.67	2 13	3.53	2 55	2.67
1917	43 64	38 90	38 95	41 31	40 00	70 96	3 64	3 83	5.88	3.67	4 19
1918	36 67	32 50	36 56	33 25	57 00	47.33	2 89	4 31	3 24	2.99	3 54
1919	31 12	27 65	32 16	29 16	49 29	40 51	2.50	4 10	2.72	2.53	3 12
1920	44.44	42 21	44 47	42 53	54.42	56.22	3 22	4 75	3.28	2.95	3 68
1921	25 34	21.74	26 68	22 93	45 69	34 46	1 87	4 47	1.93	1 94	2 53
1922	27 58	24 20	23 93	24 85	40 75	33.95	1 72	3 35	1.72	1 71	2 22
1923	28 97	25 81	27 87	28 16	43 00	41.70	2 36	3 50	2.43	2.43	2 74
1924	23 29	20 24	23 92	22 11	43 00	37 99	2 20	4 00	2 12	2 19	2 61
1925	22 33	19 59	23 74	22 09	43 00	35 23	2 02	4 52	1.91	1 99	2 47
1926	21 33	18 55	24 71	21 64	43 00	36 00	2 00	4 62	1 88	1 95	2 44
1927	20 46	17 70	21 16	19 68	43 00	33 27	1 84	4 63	1 82	1 83	2 36
1928	19.22	16 67	19 70	18.54	43 00	32 67	1 87	4 64	1 87	1 87	2 35

<sup>1</sup> At furnace after 1907<sup>2</sup> Bessemer rails to end of 1913; open-hearth thereafter. The extra \$2 per gross ton charged for many years on open-hearth rails was annulled, Oct. 22, 1921.<sup>3</sup> All muck iron for 1890; subsequently, best refined.<sup>4</sup> Average for years 1898-1900.

## No. 744.—ALUMINUM AND BAUXITE: PRODUCTION, EXPORTS, AND IMPORTS

	1913	1920	1923	1925	1926	1927	1928
BAUXITE							
Quantities, long tons, (2,240 pounds).							
Production	210, 241	521, 308	522, 690	316, 540	392, 250	320, 940	375, 426
Georgia, Alabama, and Tennessee	40, 370	40, 029	28, 810	20, 220	20, 680	17, 110	14, 190
Arkansas	169, 871	481, 279	493, 880	296, 320	371, 570	303, 830	361, 236
Imports for consumption	21, 456	42, 895	119, 020	353, 696	281, 644	356, 580	350, 111
Exports	( <sup>1</sup> )	22, 257	78, 560	78, 633	87, 770	121, 858	112, 984
Value of production <sup>2</sup> (1,000 dollars)	998	3, 247	3, 157	1, 988	2, 415	1, 989	2, 274
ALUMINUM							
Value, 1,000 dollars:							
Production—							
Primary metal	9, 450	41, 375	28, 305	36, 430	37, 583	39, 266	47, 899
Secondary metal	2, 199	9, 489	10, 825	24, 816	24, 868	23, 470	22, 848
Imports for consumption, total	4, 784	13, 077	8, 743	10, 107	16, 779	14, 202	8, 873
Crude and semicrude	4, 388	12, 184	8, 317	9, 806	16, 422	13, 317	8, 057
Manufactures	396	893	426	301	357	885	817
Exports, total	966	5, 631	3, 572	6, 057	4, 452	6, 307	6, 891
Crude and semicrude	-----	3, 068	1, 518	3, 366	2, 135	3, 479	3, 759
Manufactures	-----	2, 563	2, 054	2, 691	2, 317	2, 829	3, 133
Quantities, 1,000 pounds							
Imports (crude and semicrude)	25, 095	39, 299	42, 477	41, 997	71, 392	62, 575	38, 846
Exports (crude and semicrude)	( <sup>1</sup> )	9, 408	5, 540	12, 642	7, 634	14, 523	15, 728

<sup>1</sup> Unavailable<sup>2</sup> F. o. b. mines

Sources. Table 743, Iron Age and American Iron and Steel Institute; Table 744, Bureau of Mines, Department of Commerce.

## No. 745.—COPPER: PRODUCTION, EXPORTS, IMPORTS, AND CONSUMPTION

NOTE.—All quantities except ore produced in millions and tenths of millions of pounds. Production figures include continental United States and Alaska. Owing to the varying stages of production, the stocks in different classes of hands, the redistribution of copper previously purchased, the recovery and use of old copper, etc., calculations of consumption are somewhat uncertain. The American Bureau of Metal Statistics presents consumption estimates rather widely different from those given below. Consumption as shown represents the quantity of copper withdrawn on domestic account, but not actual domestic consumption, as no account is taken of consumers' stocks.

Item	1910	1915	1920	1924	1925	1926	1927	1928
<b>UNREFINED COPPER</b>								
Ore produced (million short tons) <sup>1</sup> .....	28 5	43 4	36 8	49 2	53 1	57 2	56 7	(?)
Average copper yield, per cent.....	1 83	1 66	1 63	1 59	1 54	1 46	1 41	(?)
Smelter output from domestic ore.....	1,080 2	1,388 0	1,209 1	1,634 2	1,674 9	1,739 6	1,684 0	1,825 9
Mine production.....	1,088 2	1,488 1	1,224 6	1,606 2	1,678 1	1,725 2	1,650 0	(?)
Imports, unrefined								
Ore (copper content).....	64 2	92 1	52 0	105 2	107 6	106 7	99 3	106 2
Concentrates (copper content).....	21 0	22 3	46 8	41 7	54 0	44 8	68 2	39 5
Matte and regulus (copper content).....			17 6	1 1	1 7	2 1	1 4	2 6
Black, in bars, pigs, etc.....	<sup>2</sup> 259 2	<sup>2</sup> 193 8	244 7	471 0	379 3	443 8	438 6	543 2
<b>REFINED COPPER PRODUCTION</b>								
Total new and old copper.....	1,611 0	2,027 0	2,151 0	3,037 0	3,045 0	3,282 0	3,306 0	3,560 0
New copper (primary).....	1,422 0	1,634 2	1,526 2	2,260 1	2,204 6	2,322 5	2,325 8	2,487 6
Domestic.....	1,071 9	1,387 7	1,182 4	1,674 2	1,682 9	1,731 3	1,719 0	1,791 8
Foreign.....	350 1	246 5	343 7	585 9	521 7	591 2	606 8	695 8
Electrolytic.....	1,128 3	1,360 8	1,351 7	2,076 3	2,050 6	2,142 0	2,125 8	2,300 9
Lake.....	221 5	236 8	153 5	145 3	138 0	172 4	195 1	179 1
Casting and best select <sup>4</sup> .....	72 3	30 6	21 0	38 4	15 9	8 1	4 8	7 6
Old copper rerefinned (secondary).....	189 0	392 4	624 9	776 6	840 4	959 6	980 4	1,072 8
<b>REFINED COPPER CONSUMPTION</b>								
New copper produced (refinery).....	1,422 0	1,634 2	1,526 2	2,260 1	2,204 6	2,322 5	2,325 8	2,487 6
Refined copper imported.....	(?)	(?)	108 7	145 9	99 8	170 6	103 3	84 7
Refined copper exported <sup>5</sup> .....	706 3	588 8	553 1	1,072 2	1,022 3	900 9	981 1	1,020 8
Stocks, Dec 31 (refined).....	122 8	82 4	659 0	243 0	124 0	146 0	171 0	114 0
Withdrawn on domestic account:								
New refined copper.....	732 4	1,136 6	1,053 8	1,354 7	1,401 0	1,570 1	1,423 0	1,608 5
New and old copper <sup>6</sup> .....	921 0	1,529 0	1,679 0	2,131 0	2,241 0	2,530 0	2,403 0	3,560 0

<sup>1</sup> 2,000 pounds<sup>2</sup> Not available.<sup>3</sup> Imports of refined copper in ingots, bars, or other forms included in imports of unrefined.<sup>4</sup> Includes pig for years 1915 and 1920<sup>5</sup> Includes the small exports of unrefined black blister and converter copper (bars, pigs, etc.) for years prior to 1924<sup>6</sup> Total from preceding line plus production of secondary copper as given above.

## No. 746.—COPPER: SMELTER PRODUCTION BY STATE OF ORIGIN OF ORE SMELTED

[Quantities in thousands of pounds]

State of origin	1900	1910	1915	1920	1925	1926	1927	1928
<b>Total.....</b>	<b>606, 117</b>	<b>1,080, 160</b>	<b>1,388, 010</b>	<b>1,209, 061</b>	<b>1,674, 870</b>	<b>1,739, 622</b>	<b>1,684, 04</b>	<b>1,825, 900</b>
Alaska.....		4, 311	70, 695	66, 094	72, 204	67, 632	56, 489	40, 542
Arizona.....	118, 318	297, 251	432, 468	552, 989	722, 653	729, 325	681, 168	735, 632
California.....	28, 511	45, 760	37, 658	11, 822	46, 944	30, 443	25, 803	24, 708
Colorado.....	7, 827	9, 307	7, 272	4, 283	3, 163	4, 658	8, 007	10, 262
Idaho.....	290	6, 878	6, 218	1, 922	3, 144	1, 171	1, 811	2, 337
Michigan.....	145, 461	221, 463	238, 958	153, 484	138, 030	174, 779	195, 135	179, 104
Missouri.....			306	633	12	54	5	1
Montana.....	270, 754	283, 079	268, 263	177, 744	270, 605	257, 272	225, 209	251, 046
Nevada.....	408	64, 495	67, 757	55, 580	77, 138	109, 042	118, 298	159, 333
New Mexico.....	4, 169	3, 785	62, 817	52, 160	76, 467	82, 848	79, 761	92, 777
Oregon.....		22	797	2, 529	126	279	485	375
Pennsylvania.....		741		618	562	496	2, 149	5, 014
Tennessee.....		16, 692	18, 205	16, 728	19, 789	18, 602	14, 499	16, 374
Utah.....	18, 355	125, 185	175, 178	110, 358	242, 731	259, 649	267, 706	298, 575
Washington.....		65	904	2, 126	1, 185	1, 837	1, 767	1, 197
Undistributed.....	12, 024	1, 127	514	92	117	2, 037	5, 749	8, 521

Source of Tables 745 and 746 Bureau of Mines, Department of Commerce.

## No. 747.—COPPER: SMELTER AND REFINERY OUTPUT

NOTE.—Smelter output as here given represents the production of unrefined copper from domestic (in cluding Alaskan) ores. Some copper ore is imported and smelted in this country, but this appears only in the figures of refined copper from imported material in Table 745

[Quantities in millions of pounds; values in thousands of dollars]

Period	Smelter output from domestic ore		Year	Smelter output from domestic ore		Refinery output (quantity)			
	Quantity	Value		Quantity	Value	New copper			Secondary copper
						Total <sup>1</sup>	Domes- tic	For- eign <sup>1</sup>	
1850-----	1½	320	1907-----	869	173,799	1,033	868	165	-----
1860-----	16	3,709	1908-----	943	124,419	1,138	943	195	-----
1870-----	28	5,997	1909-----	1,093	142,084	1,391	1,093	298	-----
1871-1875-----	34	8,895	1910-----	1,080	137,180	1,422	1,072	350	189
1876-1880-----	50	9,679	1911-----	1,097	137,154	1,434	1,097	337	214
1881-1885-----	118	17,236	1912-----	1,243	205,139	1,568	1,243	325	273
1886-1890-----	226	30,345	1913-----	1,224	189,795	1,615	1,237	378	276
1891-1895-----	339	37,266	1914-----	1,150	152,968	1,534	1,150	384	252
1896-1900-----	531	74,424	1915-----	1,388	242,902	1,634	1,388	247	395
1901-1905-----	732	103,859	1916-----	1,928	474,288	2,259	1,928	331	700
1906-1910-----	980	150,924	1917-----	1,886	514,911	2,428	1,886	542	767
1911-1915-----	1,221	185,592	1918-----	1,909	471,408	2,432	1,883	549	705
1916-1920-----	1,644	395,270	1919-----	1,286	239,274	1,805	1,433	372	574
1921-1925-----	1,240	171,275	1920-----	1,209	222,487	1,526	1,182	344	625
1901-----	602	100,546	1921-----	506	65,221	951	609	341	435
1902-----	660	80,460	1922-----	950	128,289	1,256	905	351	672
1903-----	698	95,632	1923-----	1,435	210,945	1,980	1,464	516	822
1904-----	813	104,005	1924-----	1,634	214,087	2,260	1,674	586	777
1905-----	889	138,650	1925-----	1,675	237,832	2,205	1,683	522	840
1906-----	918	177,136	1926-----	1,740	243,547	2,322	1,731	591	960
			1927-----	1,684	220,609	2,326	1,719	607	980
			1928-----	1,826	262,930	2,488	1,792	696	1,073

<sup>1</sup> Includes refined copper imported from 1907 to 1919, inclusive.

Source: Bureau of Mines, Department of Commerce.

## No. 748.—EXPORTS AND IMPORTS OF COPPER

NOTE.—Exports are those classed as "domestic" in the foreign trade statistics but include copper smelted or refined in the United States from imported ore or unrefined metal. Values include all forms of copper. Quantities represent all copper except the small item, "other manufactures." Copper content of exports of ore for years 1891-1915 and of imports for years 1894-1903 was estimated.

[Quantities in short tons (2,000 pounds); values in thousands of dollars]

Yearly average or year	Exports		Imports		Year	Exports		Imports	
	Quantity	Value	Quantity	Value		Quantity	Value	Quantity	Value
1891-1895 <sup>1</sup> .....	65,586	14,392	5,477	896	1920.....	312,027	141,717	242,835	90,019
1896-1900 <sup>1</sup> .....	137,684	36,745	24,634	5,866	1921.....	314,402	97,898	175,238	45,785
1901-1905 <sup>1</sup> .....	190,451	54,942	83,237	22,611	1922.....	368,428	103,874	270,507	66,829
1906-1910 <sup>1</sup> .....	289,445	92,334	130,111	38,026	1923.....	412,375	129,220	338,236	95,988
1911-1915 <sup>1</sup> .....	416,840	123,655	176,635	46,129	1924.....	556,106	156,646	354,408	96,184
1916-1920 <sup>2</sup> .....	376,877	208,909	244,948	103,805	1925.....	540,376	161,166	326,486	84,270
1921-1925.....	438,337	129,761	298,975	77,811	1926.....	482,843	141,204	339,721	89,742
1918.....	373,845	206,732	287,903	133,525	1927.....	538,365	150,214	359,161	84,963
1919.....	258,314	130,790	214,694	86,271	1928.....	502,510	169,831	393,537	98,187

<sup>1</sup> Fiscal years ended June 30

<sup>2</sup> Average for period July 1, 1915, to Dec. 31, 1920

Source: Bureau of Foreign and Domestic Commerce.



## No. 749.—REFINED PRIMARY LEAD AND SECONDARY LEAD

NOTE.—Production in short tons (2,000 pounds), values except price per pound in thousands of dollars. This table, except the column for secondary lead, relates to new (primary) lead only; the totals include lead derived from both domestic (including Alaska) and foreign ore. General production figures and production of desilverized lead do not include antimonial lead, shown in next to the last column. This table represents exclusively refined lead, while in Table 750 part of the lead from domestic ore is unrefined.

Year	Production	Value	Year	Production	Value	Year	Production	Value
1830	8,000	608	1893	224,320	16,600	1911	486,979	43,828
1840	17,000	1,666	1894	213,650	14,101	1912	480,894	43,280
1850	22,000	2,112	1895	235,822	15,093	1913	462,460	40,696
1860	15,600	1,778	1896	257,487	15,449	1914	542,122	42,286
1870	17,830	2,247	1897	282,169	20,316	1915	550,055	51,705
1880	95,725	9,573	1898	302,148	22,963	1916	571,134	78,617
1881	114,495	10,992	1899	298,047	26,824	1917	610,769	105,652
1882	129,780	12,718	1900	367,773	32,364	1918	640,195	90,978
1883	140,297	12,066	1901	371,032	30,909	1919	482,220	51,115
1884	136,297	10,086	1902	367,892	30,167	1920	528,657	84,745
1885	126,192	10,095	1903	368,639	30,991	1921	448,589	40,373
1886	123,189	12,161	1904	393,452	33,837	1922	532,662	58,593
1887	156,630	14,097	1905	388,307	36,501	1923	618,322	86,565
1888	176,015	15,489	1906	404,746	46,141	1924	690,493	110,479
1889	178,357	13,912	1907	413,389	43,819	1925	766,969	133,453
1890	157,844	14,206	1908	396,564	33,311	1926	798,941	127,831
1891	198,363	17,059	1909	446,909	38,434	1927	796,530	100,363
1892	208,223	17,074	1910	470,272	44,384	1928	781,071	90,604

Year	Class		Source			Average value per pound	Antimonial lead, total production	Secondary lead recovered, total
	Desilverized <sup>1</sup>	Soft	Domestic ores and bullion <sup>2</sup>	Foreign ores	Foreign base bullion			
1870		17,830	17,830			\$0.063		
1880	68,085	27,690	95,725			.050	2,100	
1885	104,217	21,975	126,192			.040	3,220	
1890	126,493	31,351	139,720	18,124		.045	3,910	
1895	195,932	39,890	159,649	76,173		.032	6,060	
1900	319,752	48,021	260,918	106,855		.044	9,906	
1905	302,852	85,455	307,514	80,793		.047	10,995	
1910	328,954	141,318	375,402	18,065	76,805	.044	14,069	55,132
1915	338,594	161,461	507,026	9,581	33,448	.047	23,224	78,900
1920	339,803	189,854	476,849	8,414	44,394	.080	12,535	124,650
1925	506,409	260,560	654,921	47,024	65,024	.087	19,667	226,880
1926	540,376	258,565	680,685	48,210	70,046	.080	22,524	277,300
1927	562,586	233,944	668,320	32,369	95,841	.063	24,347	276,000
1928	556,068	226,003	626,202	26,632	128,237	.058	33,038	308,630

<sup>1</sup> Desilverized soft lead is included<sup>2</sup> Excludes antimonial lead

## No. 750.—SOURCES OF PRIMARY LEAD SMELTED OR REFINED IN THE UNITED STATES

[Production in short tons (2,000 pounds). See note to Table 749]

Source of ore	1910	1915	1920	1924	1925	1926	1927	1928
Total	494,081	580,041	547,155	706,086	798,499	814,086	812,545	797,566
From domestic ore	389,211	537,012	484,347	582,000	686,451	695,830	684,165	642,697
Arizona	948	6,953	5,987	9,372	10,281	10,640	7,918	8,144
Colorado	38,542	32,352	17,752	25,491	31,855	37,553	37,040	28,033
Idaho	109,951	160,680	117,191	123,709	123,363	132,564	150,618	141,748
Kansas	1,308	1,320	8,421	12,895	15,001	20,884	7,530	20,889
Missouri	161,659	195,634	171,999	191,501	208,547	218,083	210,806	192,759
Montana	1,943	4,863	13,231	21,226	22,008	26,350	23,041	20,470
Nevada	2,246	7,664	8,650	8,070	10,978	11,379	8,650	6,823
Oklahoma	1,805	4,346	68,494	56,017	78,487	70,004	65,790	52,817
Utah	60,605	106,105	64,006	119,318	166,844	151,127	155,199	151,724
Washington	3,909	2,632	3,841	1,973	2,889	2,052	2,067	1,812
Undistributed	4,058	9,911	10,409	11,108	14,057	14,683	14,011	16,696
Zinc residue	2,237	4,562	4,366	1,320	1,541	505	1,905	102
From foreign ore <sup>1</sup>	13,065	9,581	8,414	46,385	47,024	48,210	32,539	26,632
Africa	3,810		1,171			6	12	
Canada	25	1,174	1,186	4,633	10,676	5,385	4,138	10,123
Mexico	11,704	5,437	2,729	33,328	31,107	32,693	22,844	14,839
South America	2,996	2,829	2,747	7,663	4,496	9,893	5,506	1,568
From foreign base bullion <sup>1</sup>	76,805	33,448	44,394	77,701	65,024	70,046	95,841	128,237
Canada			1,919					
Mexico	76,805	33,173	2,421	77,701	65,024	70,046	95,841	117,193

<sup>1</sup> Totals include small unspecified items.

Source of Tables 749 and 750 Bureau of Mines, Department of Commerce

## No. 751.—SUPPLY AND DISTRIBUTION OF REFINED PRIMARY LEAD

NOTE — All data in short tons (2,000 pounds). Apparent consumption is only approximate, as no account is taken of changes in stocks outside of bonded warehouses

	1910	1915	1920	1924	1925	1926	1927	1928
Supply, total.....	473, 836	550, 467	565, 610	705, 357	779, 035	818, 255	809, 708	791, 197
Stock in bonded warehouses Jan 1.....	79	2	234	2, 617	5, 045	8, 162	10, 711	9, 464
Imports of pigs, bars, and old Production from domestic and foreign ore.....	3, 485	410	35, 719	12, 247	7, 021	11, 152	2, 467	662
Deductions, total.....	470, 272	550, 055	529, 657	690, 493	766, 969	798, 941	796, 530	781, 071
Exports of foreign lead From warehouses.....	78, 661	130, 907	27, 590	102, 410	123, 380	100, 602	146, 296	133, 632
In manufactures with benefit of drawback.....	69, 786	38, 618	17, 363	76, 758	98, 564	67, 660	122, 734	102, 067
Exports of domestic lead.....	8, 800	3, 983	6, 175	15, 275	11, 699	17, 955	11, 565	13, 224
Stock in bonded warehouses Dec 31.....	88, 306	2, 730	5, 332	4, 955	4, 276	2, 533	2, 533	14, 202
Apparent consumption.....	75	1, 322	5, 045	8, 162	10, 711	9, 464	4, 139	
	395, 175	419, 560	538, 020	602, 947	655, 655	717, 653	683, 412	667, 565

<sup>1</sup> Includes exports of pigs, bars, etc., produced from foreign ore and reexports of foreign lead imported in the form of pigs and bars.

Source Bureau of Mines, Department of Commerce.

No. 752.—MANUFACTURES OF NONFERROUS METALS AND ALLOYS,<sup>1</sup> 1927

NOTE — This table shows the production of the commodities specified, whether made as primary or as secondary products by the industries reporting them. The census designations of the industries in which these commodities are made as primary products are as follows. Babbitt metal, type metal, and solder; brass, bronze, and other nonferrous alloys, and manufactures of these alloys and of copper, not specifically classified, lead bar, pipe, and sheet, and smelting and refining, metals other than gold, silver, or platinum, not from the ore

[Quantities in thousands of pounds; values in thousands of dollars]

Kind	1927		Kind	1927	
	Quantity	Value		Quantity	Value
Ingot and pigs:			Castings, rough.		
Copper (secondary).....	33, 674	4, 254	Brass and bronze—		
Lead (secondary).....	247, 403	14, 774	Weight reported.....	307, 675	59, 320
Zinc (secondary).....	99, 627	5, 980	Weight not reported.....		6, 952
Brass and bronze.....	249, 664	29, 504	Copper.....	4, 511	1, 313
Babbitt.....	77, 091	17, 467	Nickel and nickel alloys.....		1, 772
Solders, of all kinds.....	97, 700	29, 858	Finished products		
Type metal.....	74, 269	7, 341	Castings, finished, brass and bronze.....		16, 321
Plates and sheets:			Bearings and bushings, brass and bronze (including Bab- bitt-lined bearings).....		18, 513
Brass and bronze.....	329, 573	60, 768	Die castings, total.....		20, 060
Copper.....	185, 205	39, 232	Aluminum and zinc base alloys.....		19, 266
Lead.....	52, 591	4, 807	Brass and bronze.....		794
Nickel and nickel alloys.....		12, 583	Extruded shapes, total.....		2, 788
Rods and bars			Brass and bronze.....		2, 611
Brass and bronze.....	183, 361	28, 241	Copper.....		177
Copper.....	220, 110	32, 476	Forgings and hot-pressed parts, brass.....		4, 214
Nickel and nickel alloys.....		3, 985	Ornamental grilles and rail- ings, brass and bronze.....		6, 813
Tubing (seamless) and pipe			Bells.....		320
Brass and bronze.....	124, 589	25, 910			
Copper.....	72, 329	17, 852			
Lead.....	87, 669	8, 292			
Nickel and nickel alloys.....		545			
Tubing, brazed (practically all brass).....	12, 297	3, 354			
Wire, bare. <sup>2</sup>					
Brass and bronze.....	64, 759	13, 283			
Copper.....	159, 765	25, 3 66			

<sup>1</sup> This table does not include data for establishments engaged in smelting and refining ores containing copper, lead, zinc, and other nonferrous metals

<sup>2</sup> Does not include wire made by establishments engaged primarily in the drawing of wire.

Source Bureau of the Census, Department of Commerce

## No. 753.—ZINC: PRODUCTION, EXPORTS, STOCKS, AND APPARENT CONSUMPTION

NOTE.—The excess of mine production over smelter production is due chiefly to export of ore

[All quantity figures in short tons (2,000 pounds), values in thousands of dollars]

	1910	1915	1920	1924	1925	1926	1927	1928 <sup>1</sup>
<b>Mine production (recoverable zinc content of ore)-----</b>	<b>327,618</b>	<b>587,595</b>	<b>537,594</b>	<b>637,977</b>	<b>710,847</b>	<b>774,563</b>	<b>718,541</b>	<b>687,800</b>
Colorado-----	38,545	52,297	24,395	28,364	30,811	32,500	35,865	32,602
Idaho-----	2,802	35,077	13,966	7,670	15,619	26,307	26,778	31,263
Kansas-----	13,229	14,365	61,073	105,392	118,778	126,307	109,457	107,251
Missouri-----	128,589	136,300	24,509	12,920	14,794	26,018	18,757	12,974
Montana-----	15,819	93,573	92,169	64,238	57,658	73,701	80,231	82,830
Nevada-----	1,354	12,188	5,349	5,501	7,411	5,409	3,172	3,167
New Jersey-----	68,584	117,722	78,511	84,370	89,261	80,629	95,695	-----
New Mexico-----	9,044	12,702	5,007	10,380	9,246	12,052	29,802	32,820
New York-----	-----	2,455	5,654	4,664	5,188	5,041	3,750	-----
Oklahoma-----	6,394	14,314	219,727	269,137	283,371	272,567	206,611	150,262
Tennessee-----	966	16,461	19,217	14,376	16,266	12,098	10,400	-----
Utah-----	8,184	12,146	4,079	9,231	26,306	47,590	49,593	46,929
Wisconsin-----	25,927	41,403	27,285	14,027	20,230	26,800	32,841	18,417
Other States-----	8,181	26,592	6,583	7,657	15,948	27,544	15,639	-----
<b>Smelter production-----</b>	<b>310,407</b>	<b>542,419</b>	<b>506,227</b>	<b>576,225</b>	<b>634,376</b>	<b>682,992</b>	<b>657,316</b>	<b>673,281</b>
Primary zinc-----	269,184	489,519	463,377	517,339	572,946	618,422	592,516	602,581
From domestic ore-----	252,479	458,135	450,045	515,881	555,681	611,991	576,960	591,525
From foreign ore-----	16,705	31,384	13,332	1,508	17,315	6,431	15,556	11,056
Secondary zinc-----	41,223	52,900	42,850	58,896	61,430	64,570	64,800	70,700
Redistilled-----	12,784	29,764	21,371	35,486	39,181	40,799	42,784	48,666
Remelted-----	28,439	23,136	21,479	23,400	22,249	23,771	22,016	22,034
Value of primary product from domestic ore (\$1,000)-----	27,268	113,617	72,907	67,058	84,456	91,799	73,851	72,166
<b>Primary zinc consumed:</b>								
Supply, total-----	282,350	510,518	508,347	545,252	593,724	631,524	619,512	656,106
Stock, Jan 1-----	11,206	20,095	36,793	27,888	20,754	13,080	26,937	53,522
Produced-----	269,184	489,519	463,377	517,339	572,946	618,422	592,516	602,581
Imported-----	1,960	904	8,177	25	24	22	59	3
Deductions-----								
Exports, total-----	13,234	131,410	114,267	76,241	80,547	47,561	49,617	29,532
Stock, Dec 31-----	23,232	14,253	71,037	20,764	13,080	26,937	53,522	48,482
<b>Apparent domestic consumption-----</b>	<b>245,884</b>	<b>364,855</b>	<b>323,043</b>	<b>448,257</b>	<b>500,097</b>	<b>557,026</b>	<b>516,373</b>	<b>578,092</b>

<sup>1</sup> Total mine production figures and data for some States are preliminary, data for other States are not yet available

Source. Bureau of Mines, Department of Commerce.

## No. 754.—SMELTER PRODUCTION OF PRIMARY ZINC FROM DOMESTIC ORE

[Quantities in short tons (2,000 pounds); values<sup>1</sup> in thousands of dollars]

Yearly average or year	Quantity	Value	Yearly average or year	Quantity	Value	Year	Quantity	Value
1875-----	15,833	<sup>2</sup> 2,217	1921-1925----	426,261	56,149	1920-----	450,045	72,907
1880 <sup>3</sup> -----	23,239	2,277	1911-----	271,621	30,965	1921-----	198,232	19,823
1885-----	40,688	3,540	1912-----	323,907	44,699	1922-----	353,274	40,273
1886-1890-----	54,285	5,219	1913-----	337,252	37,772	1923-----	508,385	69,134
1891-1895-----	82,396	6,787	1914-----	343,418	35,029	1924-----	515,831	67,058
1896-1900-----	109,963	10,180	1915-----	458,135	113,617	1925-----	555,631	84,456
1901-1905-----	169,504	17,067	1916-----	564,338	151,243	1926-----	611,991	91,799
1906-1910-----	219,378	24,165	1917-----	581,597	119,258	1927-----	576,960	73,851
1911-1915-----	346,867	52,416	1918-----	492,405	89,618	1928-----	591,525	72,166
1916-1920-----	508,731	99,812	1919-----	452,272	66,032			

<sup>1</sup> Values at New York prices up to and including 1907, at St. Louis prices, 1908 to 1914, at average price all grades, 1915 and later years<sup>2</sup> Computed at yearly average of high and low monthly prices at New York.<sup>3</sup> Census year ended May 31

Source. Bureau of Mines, Department of Commerce.

# No. 755.—GOLD AND SILVER: PRODUCTION FROM MINES IN CONTINENTAL UNITED STATES, ALASKA, AND PHILIPPINE ISLANDS

NOTE.—The value of gold, in terms of money, being unchanging at \$20 67½ per fine ounce, is not shown in the table. The value of silver given is commercial value (Pittman Act value for 1921 to June, 1923), which at times has differed materially from coinage value

[Figures are totals for period or for year]

Calendar year or period	Gold, 1,000 fine ounces	Silver, 1,000 fine ounces	Silver, value, 1,000 dollars	Calendar year or period	Gold, 1,000 fine ounces	Silver, 1,000 fine ounces	Silver, value, 1,000 dollars
1792-1847.....	1,187	310	405	1898.....	3,118	54,438	32,118
1848-1850.....	4,838	116	152	1899.....	3,437	54,765	32,859
1851-1855.....	14,271	194	259	1900.....	3,830	57,647	35,741
1856-1860.....	12,384	309	418	1901.....	3,806	55,214	33,128
1861-1865.....	10,716	28,811	38,674	1902.....	3,870	55,500	29,415
1866-1870.....	12,226	49,113	65,261	1903.....	3,560	54,300	29,322
1871-1875.....	8,826	121,083	156,270	1904.....	3,892	57,683	33,456
1876-1880.....	10,301	157,681	182,506	1905.....	4,266	56,102	34,222
1881-1885.....	7,730	182,841	202,807	1906.....	4,565	56,518	38,256
1886-1890.....	8,078	231,819	227,495	1907.....	4,375	56,515	37,300
1891-1895.....	9,107	287,057	227,960	1908.....	4,574	52,441	28,051
1896-1900.....	15,729	279,544	172,689	1909.....	4,822	54,722	28,455
1901-1905.....	19,894	278,798	159,543	1910.....	4,657	57,138	30,855
1906-1910.....	22,993	277,333	162,916	1911.....	4,687	60,399	32,616
1911-1915.....	22,968	338,384	189,626	1912.....	4,521	63,767	39,198
1916-1920.....	17,246	326,009	238,852	1913.....	4,300	66,802	40,348
1921-1925.....	12,194	313,757	238,862	1914.....	4,573	72,455	40,068
1893.....	1,451	35,733	39,618	1915.....	4,888	74,961	37,397
1894.....	1,490	37,744	41,921	1916.....	4,479	74,415	48,953
1895.....	1,638	39,909	42,504	1917.....	4,051	71,740	59,078
1896.....	1,687	39,694	39,482	1918.....	3,321	67,810	66,485
1897.....	1,603	41,722	40,887	1919.....	2,919	56,682	63,534
1898.....	1,604	45,793	43,045	1920.....	2,476	55,362	60,802
1899.....	1,595	50,095	46,838	1921.....	2,422	53,052	1 53,052
1900.....	1,589	54,516	57,242	1922.....	2,368	56,240	1 56,240
1901.....	1,605	58,330	57,630	1923.....	2,503	73,335	1 60,135
1902.....	1,597	63,500	55,663	1924.....	2,529	65,407	43,823
1903.....	1,739	60,000	46,800	1925.....	2,412	68,155	45,912
1904.....	1,911	49,500	31,422	1926.....	2,335	62,719	39,136
1905.....	2,255	55,727	36,446	1927.....	2,197	60,434	34,266
1906.....	2,568	58,835	39,655	1928.....	2,194	56,020	32,772
1907.....	2,775	53,860	32,316				

  

State or Territory	Gold, 1,000 fine ounces					Silver, 1,000 fine ounces					Silver, value, 1923, 1,000 dollars
	1910	1920	1925	1927	1928	1910	1920	1925	1927	1928	
Total.....	4,657	2,478	2,412	2,197	2,194	57,138	55,362	66,155	60,434	56,020	32,772
Alaska.....	787	413	301	286	310	154	822	766	606	463	271
Arizona.....	165	240	204	203	185	2,656	5,432	7,371	6,601	6,347	3,713
California.....	989	716	642	565	523	1,792	1,655	3,240	1,558	1,410	825
Colorado.....	993	363	357	259	264	8,523	5,167	4,435	3,941	3,973	2,324
Idaho.....	50	23	20	15	21	7,027	7,365	7,663	8,929	8,878	5,194
Michigan.....						262	512	136	52	4	3
Montana.....	180	92	84	56	58	12,283	13,263	12,597	11,810	10,002	5,851
Nevada.....	913	175	180	149	175	12,366	7,482	6,847	5,373	5,392	3,154
New Mexico.....	23	22	30	26	32	779	700	800	755	799	468
Oregon.....	33	50	19	14	10	44	102	35	42	28	17
South Dakota.....	260	210	288	323	320	121	88	98	95	90	52
Texas.....	(?)	(?)		(?)	1	364	523	555	943	1,391	814
Utah.....	209	108	181	200	205	10,446	11,755	21,241	19,354	16,856	9,861
Washington.....	39	7	11	19	16	205	178	166	162	94	55
Philippine Islands.....	7	62	92	80	86	2	22	49	40	36	21
Other.....	8	(?)	3	1	2	115	296	156	174	256	150

1 For 1921, 1922, and first half of 1923 price is taken at the figure of \$1 per ounce fixed by the Pittman Act

2 Less than 500 ounces.

Source: Reports of the Director of the Mint, Treasury Department.

## No. 756.—GOLD AND SILVER FOR USE IN MANUFACTURES AND THE ARTS

Yearly average or year	Gold in thousands of dollars					Silver in thousands of fine ounces				
	New material			Old material	Grand total	New material			Old material	Grand total
	United States coin <sup>1</sup>	Bullion and foreign coin	Total			United States coin <sup>1</sup>	Bullion and foreign coin	Total		
1880.....	3,300	5,511	8,811	1,294	10,105	464	2,126	2,590	204	2,794
1881-1885.....	3,715	6,991	10,706	1,863	12,568	155	3,635	3,840	315	4,155
1886-1890.....	3,500	8,512	12,012	4,029	16,041	155	4,831	4,986	676	5,662
1891-1895.....	3,500	7,948	11,448	5,060	16,508	108	6,938	7,046	951	7,997
1896-1900.....	3,500	9,398	12,898	4,067	16,965	77	8,937	9,014	1,200	10,214
1901-1905.....	3,500	18,218	21,718	6,778	28,496	77	16,447	16,524	3,002	19,526
1906-1910.....	3,500	26,941	30,441	7,708	38,149	77	20,807	20,884	3,609	24,553
1911-1915.....	3,500	31,198	34,698	8,106	42,803	77	23,438	23,516	6,928	30,444
1916-1920.....	3,500	40,292	43,792	19,026	62,818	77	22,011	22,089	9,126	31,214
1921-1925.....	3,500	31,192	34,692	27,631	62,323	77	28,538	28,616	8,189	36,805
1910.....	3,500	52,636	56,136	19,354	75,490	77	26,160	26,238	6,463	32,701
1920.....	3,500	50,510	54,010	28,205	82,215	77	19,203	19,280	8,604	27,975
1921.....	3,506	19,550	23,050	27,624	50,674	77	28,766	28,844	7,024	35,868
1922.....	3,500	32,822	36,322	23,484	59,806	77	31,209	31,287	6,624	37,910
1923.....	3,500	36,513	40,013	29,279	69,292	77	28,278	28,355	8,470	36,825
1924.....	3,500	34,413	37,913	27,975	65,888	77	24,587	24,664	8,931	33,595
1925.....	3,500	32,062	35,562	29,792	65,354	77	29,852	29,929	9,897	39,827
1926.....	3,500	39,768	43,268	31,065	74,334	77	29,330	29,408	10,001	39,408
1927.....	3,500	29,357	32,857	26,461	59,319	77	28,416	28,493	10,155	38,649

<sup>1</sup> Estimated.

## No. 757.—SILVER: PRICE, AND VALUE OF SILVER IN THE DOLLAR

NOTE.—The London price is converted to the basis of the ounce 1,000 fine and converted to American money throughout at par of exchange, notwithstanding the fact that from 1918 to 1924, inclusive, the pound sterling was depreciated as compared to the dollar. During this period of depreciation the commercial ratio and the value of the silver (371¼ grains) in the dollar are computed on the basis of the New York average price, for other years they are computed on the basis of the London quotations, which were at all times close to the New York quotations.

Calendar year	London, per fine ounce	New York, per fine ounce			Commercial ratio to gold	Value of silver in dollar	Calendar year	London, per fine ounce	New York, per fine ounce			Commercial ratio to gold	Value of silver in dollar
		Average	High	Low					Average	High	Low		
1886.....	1.308	---	---	---	15.80	-----	1900.....	0.620	0.621	0.658	0.598	33.33	0.480
1840.....	1.323	---	---	---	15.62	1.023	1901.....	.596	.597	.615	.548	31.68	.461
1845.....	1.298	---	---	---	15.92	1.004	1902.....	.528	.528	.569	.474	39.15	.408
1850.....	1.316	---	---	---	15.77	1.018	1903.....	.543	.542	.624	.475	38.10	.420
1855.....	1.344	---	---	---	15.38	1.039	1904.....	.579	.578	.625	.534	35.70	.448
1860.....	1.352	---	---	---	15.29	1.045	1905.....	.610	.610	.665	.556	33.87	.472
1865.....	1.338	---	---	---	15.44	1.035	1906.....	.677	.674	.724	.631	30.54	.524
1870.....	1.328	---	---	---	15.47	1.027	1907.....	.662	.660	.710	.528	31.24	.512
1875.....	1.242	1.239	1.261	1.210	16.64	.961	1908.....	.535	.535	.589	.483	38.64	.414
1880.....	1.145	1.139	1.150	1.113	18.05	.886	1909.....	.520	.522	.545	.508	39.74	.402
1882.....	1.136	1.139	1.150	1.090	18.20	.878	1910.....	.541	.542	.576	.508	38.22	.418
1883.....	1.109	1.087	1.118	1.095	18.64	.858	1911.....	.539	.540	.575	.521	38.33	.417
1884.....	1.111	1.112	1.133	1.080	18.61	.859	1912.....	.615	.620	.656	.553	33.62	.475
1885.....	1.065	1.064	1.095	1.028	19.41	.824	1913.....	.605	.612	.651	.580	34.19	.468
1886.....	.995	.999	1.035	.925	20.78	.789	1914.....	.553	.563	.609	.490	37.37	.428
1887.....	.979	.979	1.035	.950	21.10	.758	1915.....	.519	.511	.580	.478	39.84	.401
1888.....	.940	.943	.978	.920	22.00	.727	1916.....	.686	.672	.791	.573	30.11	.531
1889.....	.935	.936	.973	.925	22.10	.723	1917.....	.895	.840	1.165	.731	23.09	.692
1890.....	1.046	1.053	1.205	.958	19.75	.809	1918.....	1.042	.984	1.025	.804	21.00	.761
1891.....	.988	.990	1.075	.948	20.92	.764	1919.....	1.250	1.121	1.388	1.018	18.44	.867
1892.....	.871	.876	.953	.830	23.72	.674	1920.....	1.346	1.019	1.368	.608	20.27	.788
1893.....	.780	.782	.850	.650	26.49	.604	1921.....	.805	.631	.738	.532	32.75	.483
1894.....	.685	.640	.700	.595	32.56	.491	1922.....	.754	.679	.742	.629	30.43	.525
1895.....	.654	.663	.690	.600	31.60	.506	1923.....	.700	.652	.690	.629	31.69	.505
1896.....	.676	.682	.703	.656	30.59	.523	1924.....	.745	.671	.724	.630	30.80	.519
1897.....	.604	.608	.661	.528	34.20	.467	1925.....	.703	.694	.732	.668	29.38	.537
1898.....	.590	.591	.623	.551	35.03	.456	1926.....	.629	.624	.680	.518	32.88	.483
1899.....	.602	.605	.648	.586	34.36	.465	1927.....	.571	.567	.603	.542	36.22	.438

Source: Tables 756 and 757. Annual Reports of the Director of the Mint, Treasury Department.

## No. 758.—COAL PRODUCTION: QUANTITY AND VALUE

NOTE.—Quantities in thousands of short tons (2,000 pounds); values in thousands of dollars. Includes coal consumed at mines. Figures for anthracite relate to Pennsylvania output only, those for bituminous relate to continental United States and Alaska. Bituminous coal includes brown coal and small amounts of anthracite outside of Pennsylvania. Comparatively little coal is held in stock at the mines.

Year or yearly average	Quantity			Year	Quantity			Value	
	Total	Anthracite	Bituminous		Total	Anthracite	Bituminous	Anthracite	Bituminous
1821-1830.....	140	66	75	1906...	414, 157	71, 282	342, 875	131, 918	381, 162
1831-1840.....	1, 032	722	310	1907...	480, 363	85, 604	394, 759	163, 584	451, 215
1841-1850.....	4, 535	2, 697	1, 837	1908...	415, 843	83, 269	332, 574	158, 179	374, 135
1851-1860.....	12, 513	7, 645	4, 868	1909...	460, 815	81, 070	379, 744	149, 182	405, 487
1861-1865.....	20, 538	11, 142	9, 396	1910...	501, 596	84, 485	417, 111	160, 275	469, 282
1866-1870.....	31, 706	16, 281	15, 425	1911...	496, 371	90, 464	405, 907	175, 189	451, 376
1871-1875.....	52, 179	23, 407	28, 773	1912...	534, 467	84, 362	450, 105	177, 623	517, 983
1876-1880.....	62, 261	25, 800	36, 461	1913...	598, 900	91, 525	478, 435	195, 181	555, 235
1881-1885.....	107, 291	36, 198	71, 093	1914...	513, 325	90, 822	422, 704	188, 181	493, 309
1886-1890.....	138, 398	43, 952	94, 446	1915...	531, 619	88, 995	442, 624	184, 653	502, 088
1891-1895.....	178, 822	53, 405	125, 416	1916...	590, 098	87, 578	502, 520	202, 010	665, 116
1896-1900.....	227, 123	55, 625	171, 498	1917...	651, 402	99, 612	551, 791	233, 651	1, 249, 273
1901-1905.....	330, 357	66, 854	272, 503	1918...	678, 212	98, 826	579, 386	336, 480	1, 491, 810
1906-1910.....	454, 555	81, 142	373, 413	1919 <sup>1</sup> ...	553, 952	88, 092	465, 860	364, 927	1, 160, 616
1911-1915.....	529, 189	89, 233	439, 955	1920...	638, 265	89, 598	508, 667	434, 252	1, 239, 933
1916-1920.....	626, 386	92, 741	533, 645	1921 <sup>1</sup> ...	506, 395	90, 473	415, 922	452, 305	1, 199, 984
1921-1925.....	558, 947	77, 648	481, 299	1922...	476, 951	54, 683	422, 268	273, 700	1, 274, 820
1901.....	293, 300	67, 472	225, 828	1923...	657, 904	93, 339	564, 565	506, 787	1, 514, 621
1902.....	301, 590	41, 374	260, 217	1924 <sup>1</sup> ...	571, 613	87, 927	483, 687	477, 231	1, 062, 626
1903.....	357, 356	74, 607	282, 749	1925 <sup>1</sup> ...	581, 870	61, 817	520, 053	327, 665	1, 060, 402
1904.....	351, 816	73, 157	278, 660	1926 <sup>1</sup> ...	657, 804	84, 437	573, 367	474, 164	1, 133, 412
1905.....	392, 723	77, 660	315, 063	1927 <sup>1</sup> ...	597, 859	80, 096	517, 763	420, 942	1, 029, 657
				1928 <sup>2</sup> ...	569, 489	76, 734	492, 755	400, 374	946, 090

  

State	1880	1890	1900	1911-1915	1916-1920	1921-1925	1926 <sup>1</sup>	1927 <sup>1</sup>	1928 <sup>2</sup>
Total quantity.....	71, 482	157, 771	269, 684	529, 189	626, 386	558, 947	657, 804	597, 859	569, 489
Anthracite (Pa.).....	28, 650	46, 469	57, 368	89, 233	92, 741	77, 648	84, 837	80, 096	76, 734
Bituminous.....	42, 831	111, 302	212, 316	439, 956	533, 645	481, 299	573, 367	517, 763	492, 755
Alabama.....	324	4, 090	8, 394	15, 864	17, 834	18, 097	21, 001	19, 766	17, 400
Arkansas.....	15	400	1, 448	1, 986	1, 980	1, 459	1, 459	1, 549	1, 800
Colorado.....	463	3, 077	5, 244	9, 433	11, 595	10, 049	10, 637	9, 724	9, 877
Illinois.....	6, 115	15, 292	25, 768	58, 320	78, 255	68, 523	69, 367	46, 848	55, 640
Indiana.....	1, 454	3, 306	6, 484	16, 060	25, 515	21, 677	23, 186	17, 936	15, 965
Iowa.....	1, 461	4, 022	5, 203	7, 442	7, 571	4, 852	4, 625	2, 950	3, 910
Kansas.....	771	2, 260	4, 468	6, 811	6, 556	3, 827	4, 416	3, 444	2, 220
Kentucky.....	946	2, 701	5, 329	18, 390	30, 108	43, 743	62, 924	69, 124	63, 255
Maryland.....	2, 229	3, 358	4, 025	4, 849	4, 158	2, 033	3, 078	2, 815	2, 780
Michigan.....	101	75	849	1, 271	1, 301	976	687	757	565
Missouri.....	844	2, 735	3, 540	4, 048	5, 086	3, 011	3, 008	3, 064	3, 400
Montana.....	( <sup>3</sup> )	517	1, 662	2, 972	4, 098	2, 881	2, 798	3, 144	3, 170
New Mexico.....	376	1, 299	3, 618	3, 728	3, 728	2, 772	2, 818	2, 936	2, 905
North Dakota.....	30	130	506	787	1, 221	1, 370	1, 528	1, 828	1, 828
Ohio.....	6, 009	11, 495	18, 988	28, 553	40, 609	31, 590	27, 872	15, 800	15, 095
Oklahoma.....	121	869	1, 922	3, 720	4, 292	2, 741	2, 843	3, 818	3, 050
Pennsylvania.....	18, 425	42, 302	79, 842	157, 229	168, 532	133, 721	153, 042	132, 965	124, 720
Tennessee.....	495	2, 170	3, 510	6, 288	6, 208	5, 078	5, 789	5, 783	5, 680
Texas.....	184	968	2, 201	1, 980	1, 980	1, 084	1, 091	1, 326	895
Utah.....	15	318	1, 147	2, 999	4, 693	4, 593	4, 374	4, 781	4, 810
Virginia.....	43	784	2, 394	7, 924	10, 158	10, 648	14, 133	12, 916	12, 330
Washington.....	145	1, 264	2, 474	3, 261	3, 676	2, 626	2, 587	2, 635	2, 184
West Virginia.....	1, 830	7, 395	22, 647	69, 353	86, 369	97, 044	143, 509	145, 122	132, 600
Wyoming.....	590	1, 870	4, 015	6, 907	8, 555	6, 812	6, 512	6, 754	6, 486
Miscellaneous.....	435	412	565	259	190	239	239	279	190

<sup>1</sup> Exclusive of product of wagon mines<sup>2</sup> Preliminary.<sup>3</sup> Less than 500 tons.

Source: Bureau of Mines, Department of Commerce.

# No. 759.—COAL: EXPORTS, IMPORTS, AND BUNKER COAL LADEN ON VESSELS IN FOREIGN TRADE

[Quantities in thousands of long tons (2,240 pounds); values in thousands of dollars]

Yearly average or year	Total exports <sup>1</sup>		Anthracite exports		Bituminous exports <sup>1</sup>		Total imports		Bunker coal	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
1891-1895 <sup>2</sup>	3,028	10,012	1,128	4,929	1,900	5,081	1,287	3,984	-----	-----
1896-1900 <sup>2</sup>	4,710	13,300	1,469	6,268	3,241	7,032	1,403	3,831	-----	-----
1901-1905 <sup>2</sup>	7,750	24,254	1,846	8,782	5,903	15,472	2,287	6,376	-----	-----
1906 <sup>2</sup>	9,126	28,216	1,970	9,722	7,156	18,494	1,857	4,481	<sup>3</sup> 5,110	<sup>3</sup> 16,111
1907 <sup>2</sup>	11,294	34,728	2,482	12,155	8,812	22,573	1,713	4,263	<sup>3</sup> 4,460	<sup>3</sup> 14,179
1908 <sup>2</sup>	12,723	39,356	2,838	13,837	9,885	25,518	2,006	5,231	<sup>3</sup> 5,887	<sup>3</sup> 19,979
1909 <sup>2</sup>	11,889	37,817	2,870	14,275	9,019	23,041	1,232	3,519	<sup>3</sup> 6,004	<sup>3</sup> 19,672
1910	13,806	41,471	3,022	14,785	10,784	26,685	1,992	5,381	<sup>3</sup> 6,336	<sup>3</sup> 20,350
1911	17,433	52,593	3,554	18,093	13,879	34,500	1,241	3,623	<sup>3</sup> 6,507	<sup>3</sup> 20,974
1912	18,149	56,243	3,689	19,425	14,460	36,818	1,610	4,518	<sup>3</sup> 7,092	<sup>3</sup> 22,804
1913	22,141	67,410	4,154	21,960	17,987	45,450	1,415	3,863	<sup>3</sup> 7,350	<sup>3</sup> 23,690
1914	17,632	54,316	3,830	20,211	13,802	34,105	1,395	3,928	<sup>3</sup> 7,812	<sup>3</sup> 25,571
1915	20,305	61,246	3,540	18,429	16,765	42,817	1,524	4,413	<sup>3</sup> 7,063	<sup>3</sup> 23,684
1916	23,143	68,298	4,166	22,470	18,977	45,828	1,536	4,734	7,826	27,492
1917	26,649	110,413	5,364	30,910	21,285	79,503	1,304	4,842	6,883	31,845
1918	24,392	107,881	4,436	29,216	19,956	78,665	1,334	6,898	5,532	29,868
1919	22,402	120,377	4,443	36,668	17,959	83,709	977	5,738	7,343	48,206
1920	39,215	349,811	4,825	45,538	34,390	304,273	1,140	6,992	9,362	82,462
1921	24,829	168,222	4,176	45,625	20,653	122,597	1,131	7,457	7,548	52,278
1922	13,449	91,242	2,366	25,351	11,083	65,892	4,726	28,250	4,120	27,913
1923	23,700	154,124	4,545	49,577	19,155	104,547	1,949	12,249	4,547	31,470
1924	18,855	111,039	3,587	40,068	15,268	70,971	478	3,019	3,983	22,883
1925	18,429	100,163	2,838	31,761	15,591	68,403	879	5,846	4,344	23,393
1926	35,091	196,905	3,598	41,086	31,493	155,819	1,201	9,301	6,907	38,025
1927	19,051	104,257	2,969	32,928	16,082	71,829	597	3,284	4,076	22,077
1928	17,412	92,120	2,979	32,667	14,433	59,464	831	4,989	3,834	20,258

<sup>1</sup> Does not include fuel or bunker coal laden on vessels engaged in the foreign trade

<sup>2</sup> Fiscal years ended June 30

<sup>3</sup> Figures do not include coal laden on vessels on the Great Lakes.

# No. 760.—COAL: SHIPMENTS, AVERAGE VALUE PER TON, AND MEN EMPLOYED

Calendar year	Thousand tons (2,000 pounds)				Average value per ton	Men employed	Average number of days worked	Average tonnage per man—		Per cent mined by machine	Calculated capacity, at 280 days (million tons <sup>1</sup> )
	Loaded for shipment	Sold locally	Used by mines	Made into coke at mines				Per day	Per year		
ANTHRACITE											
1890.....	41,011	2,001	3,457	-----	\$1.43	126,000	200	1.85	369	( <sup>2</sup> )	( <sup>3</sup> )
1895.....	52,093	1,315	4,591	-----	1.41	142,917	196	2.07	406	( <sup>2</sup> )	( <sup>3</sup> )
1900.....	50,710	1,208	5,550	-----	1.49	144,206	166	2.40	398	( <sup>2</sup> )	( <sup>3</sup> )
1905.....	69,053	1,571	7,036	-----	1.83	165,406	215	2.18	470	( <sup>2</sup> )	( <sup>3</sup> )
1910.....	73,623	2,021	8,841	-----	1.90	169,497	229	2.17	498	( <sup>2</sup> )	( <sup>3</sup> )
1915.....	76,906	2,092	9,997	-----	2.07	176,552	230	2.19	504	1.5	( <sup>3</sup> )
1920.....	76,844	2,897	9,858	-----	4.85	145,074	271	2.28	618	1.1	( <sup>3</sup> )
1923.....	82,239	3,248	7,852	-----	5.43	157,743	268	2.21	592	1.4	( <sup>3</sup> )
1924.....	77,247	3,044	7,635	-----	5.43	160,009	274	2.00	550	1.7	( <sup>3</sup> )
1925.....	53,768	2,885	5,164	-----	5.30	160,312	182	2.12	386	1.6	( <sup>3</sup> )
1926.....	75,319	2,687	6,431	-----	5.62	165,386	244	2.09	511	1.1	( <sup>3</sup> )
1927.....	70,495	3,047	6,554	-----	5.26	165,259	225	2.15	485	1.5	( <sup>3</sup> )
BITUMINOUS											
1890.....	87,373	7,008	1,607	15,332	.99	192,204	226	2.56	579	<sup>3</sup> 5.3	137
1895.....	106,287	8,340	2,086	18,404	.86	239,962	194	2.90	563	<sup>4</sup> 11.9	196
1900.....	173,072	7,868	3,740	27,635	1.04	304,375	234	2.98	697	24.9	255
1905.....	255,201	10,639	7,007	42,412	1.06	460,629	211	3.24	684	32.8	417
1910.....	342,969	12,287	9,668	52,187	1.12	555,533	217	3.46	751	41.7	538
1915.....	379,877	12,354	9,799	40,595	1.13	557,456	203	3.91	794	55.0	610
1920.....	504,873	21,289	11,896	30,608	3.75	639,547	220	4.00	881	59.8	725
1923.....	505,600	21,933	8,765	27,859	2.63	702,817	179	4.47	801	66.9	835
1924.....	441,566	21,111	6,618	14,392	2.20	619,094	171	4.36	780	69.5	792
1925.....	477,173	21,351	5,776	15,753	2.04	588,403	195	4.52	884	70.6	748
1926.....	526,286	23,602	5,728	17,751	2.06	593,647	215	4.50	966	71.7	747
1927.....	480,223	21,890	4,930	10,720	1.99	593,918	191	4.55	872	72.2	759

<sup>1</sup> Of 2,000 pounds

<sup>2</sup> Not available

<sup>3</sup> 1891

<sup>4</sup> 1896.

Sources. Table 759, Bureau of Foreign and Domestic Commerce; Table 760, Bureau of Mines, Department of Commerce.

# No. 761.—CONSUMPTION OF BITUMINOUS COAL: BY THE PRINCIPAL CLASSES OF CONSUMERS IN THE UNITED STATES, 1889-1927

NOTE.—Data are partly estimated and subject to revision, especially for 1927

	1889	1899	1904	1909	1914	1919	1923	1927
Consumption (million net tons), <sup>1</sup> total.....	95.8	180.3	273.2	370.3	408.3	481.6	519.0	499.8
(a) Colliery fuel.....	1.4	3.1	6.3	9.5	10.4	11.1	8.8	4.9
(b) Local sales at mines, not shipped <sup>2</sup> .....	6.4	7.8	9.6	12.0	13.0	18.1	22.1	21.9
(c) Locomotive fuel, all steam roads.....	26.5	53.4	81.0	106.0	117.0	124.7	137.0	121.0
(d) Bunkers, vessels in foreign trade.....	1.9	3.8	5.5	6.8	8.2	8.2	5.0	4.6
(e) Coke ovens, beehive and by-product.....	16.0	30.2	36.5	59.4	51.6	65.6	84.4	74.4
(f) Iron and steel works (gas coal and steam coal) <sup>3</sup> .....	5.1	11.8	13.8	20.9	22.2	28.2	30.2	25.3
(g) Coal and water gas plants <sup>4</sup> .....	1.9	2.3	3.5	3.8	4.4	4.4	4.9	5.3
(h) Electric public utilities <sup>5</sup> .....	—	7.6	13.5	18.7	24.6	32.0	35.5	39.8
(i) General manufacturing industries <sup>6</sup> .....	—	—	—	78.5	88.3	104.8	107.2	104.2
(j) Domestic and all other <sup>7</sup> .....	36.6	70.3	103.5	54.7	69.1	84.5	83.9	98.4
Per cent of total consumption.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
(a) Colliery fuel.....	1.5	1.6	2.3	2.6	2.6	2.3	1.7	1.0
(b) Local sales at mines, not shipped.....	6.7	4.1	3.5	3.2	3.2	3.8	4.3	4.4
(c) Locomotive fuel, all steam roads.....	27.7	28.1	29.7	28.6	28.6	25.9	26.4	24.2
(d) Bunkers, vessels in foreign trade.....	2.0	2.0	2.0	1.9	2.0	1.7	1.0	.9
(e) Coke ovens, beehive and by-product.....	16.7	15.9	13.4	16.0	12.6	13.6	16.3	14.9
(f) Iron and steel works (gas coal and steam coal).....	5.3	6.2	5.0	5.7	5.4	5.8	5.8	5.1
(g) Coal and water gas plants.....	2.1	1.2	1.3	1.0	1.1	.9	.9	1.1
(h) Electric public utilities.....	—	4.0	4.9	5.0	6.0	6.7	6.8	7.9
(i) General manufacturing industries.....	—	—	—	21.2	21.6	21.8	20.6	20.8
(j) Domestic and all other.....	38.0	36.9	37.9	14.8	16.9	17.5	16.2	19.7

<sup>1</sup> Of 2,000 pounds

<sup>2</sup> Item (b) includes coal used by mine employees and sold for domestic purposes in the vicinity of the mine. It also includes an unknown amount taken by locomotive tenders at the tipple or sold to a near-by factory or power plant. It therefore involves an unknown amount of overlapping with items (c), (h), and (i). Double counting in the total is avoided by an adjustment in item (j), which is obtained by subtracting the sum of all other items from the known total.

<sup>3</sup> Figures include all coal used except that charged in coke ovens

<sup>4</sup> Includes coal for gas making only. Excludes coal charged in by-product coke ovens operated by city gas companies, which is included under item (e).

<sup>5</sup> Includes electric central stations and street railways. Data not available for 1889.

<sup>6</sup> Excludes coal consumed in coke ovens, iron and steel works, and for gas making at coal and water-gas plants, includes consumption of railroad-car shops

<sup>7</sup> Includes heating of large buildings other than factories, and also some nondomestic uses not covered elsewhere. Obtained by subtraction, see item (b) and note 2. Because of this it is affected by any errors in the other items, and there is evidence that the figure for 1919 (84.5 million tons) is too high and the figure for 1923 (83.9 million tons) too low.

Source: Bureau of Mines, Department of Commerce (data were assembled from various original sources).

# No. 762.—COAL: AVERAGE AND RELATIVE RETAIL PRICES<sup>1</sup> IN TON LOTS

Year	Anthracite—Chestnut		Anthracite—Stove		Bituminous	
	Average price	Relative price	Average price	Relative price	Average price	Relative price
	Dollars	100	Dollars	100	Dollars	100
1913 <sup>1</sup> .....	7.91	100	7.73	100	5.43	100
1916.....	8.13	103	8.12	105	5.52	105
1917.....	9.40	119	9.29	120	6.96	128
1918.....	10.03	127	9.88	128	7.68	141
1919.....	11.61	147	11.51	149	7.90	145
1920.....	12.77	161	12.59	163	8.81	162
1921.....	16.13	204	15.99	207	11.82	218
1922.....	15.02	190	14.98	194	9.89	182
1923.....	15.46	195	15.43	200	11.18	206
1924.....	15.76	199	15.77	204	9.75	180
1925.....	15.37	194	15.45	200	9.24	170
1926.....	( <sup>3</sup> ) 15.19	( <sup>3</sup> ) 192	( <sup>3</sup> ) 15.43	( <sup>3</sup> ) 200	9.74	179
1927.....	15.42	195	15.66	203	9.96	183
1928.....	15.08	191	15.44	200	9.30	171
1929.....	15.06	190	15.38	199	9.09	167

<sup>1</sup> Prices represent combined averages for cities shown in Table 763

<sup>2</sup> Average of prices for January and July, 1913. This is used as a base in working relative prices.

<sup>3</sup> Insufficient data.

Source: Bureau of Labor Statistics, Department of Labor.



## NO. 763.—COAL: RETAIL PRICES, FOR HOUSEHOLD USE, AS OF JANUARY 15

[Prices (in dollars) of coal per ton of 2,000 pounds unless otherwise specified]

City	Anthracite, <sup>1</sup> chestnut					Bituminous					
	1924	1925	1927	1928	1929	1924	1925	1926	1927	1928	1929
Atlanta, Ga.-----						8 13	7 32	8 47	8 67	7 93	7.97
Baltimore, Md.-----	<sup>2</sup> 16 50	<sup>2</sup> 15 75	<sup>2</sup> 15 50	<sup>2</sup> 15.25	<sup>2</sup> 15 50	7 90	7 38	8.00	8 32	8 07	8 00
Birmingham, Ala.-----						8 23	7.79	7.62	8 09	7 72	7.66
Boston, Mass.-----	16 00	16 00	16 25	16 00	16 00						
Bridgeport, Conn.-----	16 50	15 38	16 00	14 88	15 00						
Buffalo, N. Y.-----	13 66	13.56	13 37	13 61	13 53						
Butte, Mont.-----						11 42	11 05	11 04	11 02	10 89	10 93
Charleston, S. C.-----	<sup>2</sup> 17 10	<sup>2</sup> 17 10				12 00	11 00	11 00	11 00	11 00	9 67
Chicago, Ill.-----	17 00	16 70	16 80	16 46	16.45	8.69	8.51	9.48	9 85	9 21	<sup>3</sup> 8 26
Cincinnati, Ohio.-----						8 09	7 21	7.77	7.89	7 08	<sup>3</sup> 5 54
Cleveland, Ohio.-----	15 47	14 88	15 05	14.80	14.97	8.47	8 37	9.47	9 73	9 00	<sup>3</sup> 7 43
Columbus, Ohio.-----						7 25	6 68	7.69	7 75	7 21	<sup>3</sup> 6 09
Dallas, Tex.-----	<sup>4</sup> 17 58	<sup>4</sup> 17 75	<sup>4</sup> 16 00	<sup>4</sup> 15 75	<sup>4</sup> 15 50	14 68	14.22	13.83	13 22	12 70	13 17
Denver, Colo.-----	<sup>4</sup> 16 75	<sup>4</sup> 16 33	<sup>4</sup> 16 00	<sup>4</sup> 16 00	<sup>4</sup> 16 00	10 72	9 47	10.08	10 73	10 50	10 52
Detroit, Mich.-----	16 13	15 38	15.75	15 50	15 50	9 48	8 93	10 59	10 34	9 31	<sup>3</sup> 8 33
Fall River, Mass.-----	15.92	15 83	16 25	16 25	16 25						
Houston, Tex.-----						13.17	12 38	12.75	13.50	12 80	13 20
Indianapolis, Ind.-----	16 50	16 50				7 10	7 15	7.53	7 67	7 27	<sup>3</sup> 6 28
Jacksonville, Fla.-----						13 00	12 00	14.00	14 00	14 00	12 00
Kansas City, Mo.-----	<sup>4</sup> 16 29	<sup>4</sup> 15 17	<sup>4</sup> 14 50	<sup>4</sup> 14 10	<sup>4</sup> 12 60	8.50	8 13	7.98	7 81	7.50	7 33
Little Rock, Ark.-----	<sup>4</sup> 15.00	<sup>4</sup> 15 00	<sup>4</sup> 14 00	<sup>4</sup> 13 50	<sup>4</sup> 13 50	11.57	11 00	11.27	10.80	10.60	10 25
Los Angeles, Calif.-----						15.70	16 31	15.94	16 50	16 50	16 25
Louisville, Ky.-----						8.70	7.37	7.43	8.42	7.46	<sup>3</sup> 7 16
Manchester, N. H.-----	17.50	17 00	17 50	17 25	17.00	8 00	8 11	7 84	8.80	8 33	7 37
Memphis, Tenn.-----						10.19	9.69	11.42	11.32	9 48	<sup>3</sup> 7 30
Milwaukee, Wis.-----	16 59	16.65	16 65	16 20	15 90						
Minneapolis, Minn.-----	18 08	17.95	17 75	17 70	17.90	11.51	10 92	11 35	11.75	11 72	<sup>3</sup> 10 90
Mobile, Ala.-----						11.07	10 02	9.62	10.12	9.54	9 57
Newark, N. J.-----	13 45	13.43	13 50	13 50	13 50						
New Haven, Conn.-----	16 00	15 20	15.40	15 10	14 90						
New Orleans, La.-----	21 75					11.36	11.19	11.14	11.29	11.29	11 29
New York, N. Y.-----	14 50	14 33	14 50	14 42	14 33						
Norfolk, Va.-----	16 00	15 50	16 00	15 00	15 00	8.83	9 27	10 52	9.68	9 05	<sup>3</sup> 7 88
Omaha, Nebr.-----						10.17	10.04	10 33	10 19	10 26	9 50
Peoria, Ill.-----						6.37	6.79	7 11	7.29	7 10	6 90
Philadelphia, Pa.-----	<sup>2</sup> 15 75	<sup>2</sup> 15 32	<sup>2</sup> 15.54	<sup>2</sup> 14.43	<sup>2</sup> 14 11						
Pittsburgh, Pa.-----	<sup>2</sup> 17 00	16 50	15 88	14 88	15 00	7 25	6 83	6.13	6.24	5.65	5.25
Portland, Me.-----	16 56	16.56	16 80	16 80	16.80						
Portland, Oreg.-----						13 89	13.64	13 24	13.34	13.32	13.07
Providence, R. I.-----	<sup>4</sup> 16 35	<sup>4</sup> 16 00	<sup>4</sup> 16 50	<sup>4</sup> 16 00	<sup>4</sup> 16 00						
Richmond, Va.-----	16 50	15 50	16 50	15 50	15 00	11 36	8.83	11 39	11.66	9 70	<sup>3</sup> 8 38
Rochester, N. Y.-----	14 10	14 15	14 15	14 15	14 25						
St. Louis, Mo.-----	17 38	16 88	17 20	16 45	16 45	7 22	6 69	6 62	7 50	7 02	6 40
St. Paul, Minn.-----	18 09	17 95	17 75	17 70	17 90	11 59	11 57	11 66	12 16	11 98	<sup>3</sup> 10 68
Salt Lake City, Utah.-----	<sup>4</sup> 17 50	<sup>4</sup> 18 50	<sup>4</sup> 18 00	<sup>4</sup> 18 00	<sup>4</sup> 18 00	8 50	8 40	8 43	8 47	8 34	7.86
San Francisco, Calif.-----	<sup>2</sup> 26 50	<sup>2</sup> 26 50	<sup>2</sup> 26 50	<sup>2</sup> 26 50	<sup>2</sup> 26 50	17 22	17 28	17 06	17 11	17 25	16 75
Savannah, Ga.-----	<sup>4</sup> 17 05	<sup>4</sup> 17 00				<sup>4</sup> 12 12	<sup>4</sup> 11.50	<sup>4</sup> 12.75	<sup>4</sup> 13 25	<sup>4</sup> 11.13	<sup>4</sup> 10 53
Scranton, Pa.-----	10 53	10 62	10.67	10 50	10 33						
Seattle, Wash.-----						<sup>4</sup> 10 24	10 21	9 96	10 47	10 18	10 43
Springfield, Ill.-----						4 50	4 25	4 38	4 33	4 44	4 24
Washington, D. C.-----	<sup>2</sup> 16 24	<sup>2</sup> 15 67	<sup>2</sup> 15 54	<sup>2</sup> 15 01	<sup>2</sup> 15 13	<sup>2</sup> 9 04	<sup>2</sup> 8 88	<sup>2</sup> 9 88	<sup>2</sup> 9 75	<sup>2</sup> 8 75	<sup>2</sup> 8 75

<sup>1</sup> The term "anthracite" signifies Pennsylvania anthracite, except as indicated by notes. Data for 1926 are omitted as being insignificant

<sup>2</sup> Per ton of 2,240 pounds

<sup>3</sup> Prepared sizes, high volatile

<sup>4</sup> A Kansas anthracite, egg or furnace

<sup>5</sup> Colorado anthracite, furnace, 1 and 2 mixed

<sup>6</sup> 50 cents per ton additional is charged for binning

<sup>7</sup> New Mexico anthracite

<sup>8</sup> All coal sold is weighed by the city, charge of 10 cents per ton or half-ton is included in the price.

<sup>9</sup> Price in Zone A. The cartage charges range from \$1.25 to \$2.25 and are included in the price.

<sup>10</sup> Bituminous prices for 1925 and later years are for "Prepared sizes, high volatile"

Source Bureau of Labor Statistics, Department of Labor

## No. 764.—LABOR STRIKES IN COAL MINES

Year	Men on strike	Working days lost	Average days lost per man	Year	Men on strike	Working days lost	Average days lost per man
1907 <sup>1</sup> .....	32,540	462,392	14	1918.....	79,395	508,526	6
1908 <sup>1</sup> .....	145,145	5,449,938	38	1919.....	453,418	15,761,410	35
1909.....	24,763	723,634	29	1920.....	282,419	5,914,473	21
1910.....	218,493	19,250,524	88	1921.....	151,263	3,106,103	21
1911.....	41,413	983,737	24	1922.....	603,031	73,497,043	122
1912.....	311,056	12,527,305	40	1923.....	197,214	3,868,543	20
1913.....	135,395	3,049,412	23	1924.....	129,452	5,362,748	41
1914.....	161,720	11,013,667	68	1925.....	186,369	16,433,036	88
1915.....	67,190	2,467,431	37	1926.....	174,724	6,707,778	38
1916.....	170,633	3,344,586	20	1927 <sup>2</sup> .....	193,322	26,675,109	138
1917.....	160,240	2,348,399	15				

State	1924		1925		1926		1927	
	Men on strike	Days lost	Men on strike	Days lost	Men on strike	Days lost	Men on strike	Days lost
Grand total.....	129,452	5,362,748	186,369	16,433,036	174,724	6,707,778	193,322	26,675,109
Anthracite (Pa.).....	71,273	1,143,630	147,928	15,269,506	145,376	5,990,477	20,478	159,242
Total bituminous.....	58,179	4,219,118	38,441	1,163,530	29,348	717,301	172,844	26,515,867
Arkansas.....	1,076	29,272	560	41,928	205	1,635	389	41,810
Colorado.....	120	840	595	6,943	-----	-----	5,429	267,210
Illinois.....	4,217	50,101	4,870	25,180	987	12,609	66,992	10,018,566
Indiana.....	7,699	159,743	7,919	96,963	10,450	179,375	17,303	2,345,279
Iowa.....	986	16,445	1,267	3,740	932	19,510	5,624	815,704
Kansas.....	2,706	118,918	530	8,080	118	1,560	3,014	390,711
Kentucky.....	3,938	1,735,739	1,954	162,534	688	3,170	1,824	24,756
Maryland.....	168	504	-----	-----	603	13,289	-----	-----
Michigan.....	425	1,525	725	5,575	225	225	470	1,510
Missouri.....	1,580	76,660	110	1,287	64	760	2,662	336,972
Montana.....	17	53	-----	-----	225	450	-----	-----
Ohio.....	10,256	217,752	6,572	170,208	6,857	85,118	26,250	5,605,443
Oklahoma.....	1,318	144,607	352	16,773	20	20	163	25,428
Pennsylvania <sup>1</sup> .....	8,793	361,226	7,414	234,389	4,922	272,918	41,692	6,591,870
Tennessee.....	2,134	244,945	250	2,350	300	300	50	3,000
Texas.....	-----	-----	87	261	-----	-----	-----	-----
Utah.....	58	310	280	10,920	-----	-----	-----	-----
Washington.....	-----	-----	-----	-----	-----	-----	-----	-----
West Virginia.....	7,688	1,060,478	4,956	376,399	2,692	126,242	982	47,548
Other States.....	-----	-----	-----	-----	60	120	-----	-----

<sup>1</sup> Bituminous mines only.<sup>2</sup> Owing to unusual conditions, figures tend to understate extent of the strike and number of idle miners

Source: Bureau of Mines, Department of Commerce.

## No. 765.—COKE: PRODUCTION, EXPORTS, AND IMPORTS

Yearly average or year	Production in thousands of short tons (2,000 pounds)			By-product ovens, per cent of total	Production (value) in thousands of dollars	Exports	Imports <sup>1</sup>
	Total	Beehive ovens	By-product ovens			Thousand of short tons (2,000 pounds)	
1896-1900.....	16,265	15,741	524	3 2	30,293	249	54
1901-1905.....	25,673	23,566	2,107	8 2	58,581	517	150
1906-1910.....	30,848	31,296	5,552	15 1	91,063	904	159
1911-1915.....	40,394	29,090	11,394	28.2	103,739	897	98
1916-1920.....	52,429	27,733	24,696	47 1	320,789	1,182	34
1921-1925.....	42,955	11,023	31,959	74 4	251,967	734	99
1914.....	34,556	23,336	11,220	32 5	88,334	664	133
1915.....	41,581	27,508	14,073	33 8	105,504	896	53
1916.....	54,534	35,464	19,069	35 0	170,841	1,175	55
1917.....	55,007	33,168	22,439	40 4	298,243	1,469	25
1918.....	56,478	30,481	25,998	46 0	382,324	1,688	30
1919.....	44,181	19,043	25,138	56 9	258,340	717	16
1920.....	51,345	20,511	30,834	60 0	475,981	920	41
1921.....	25,288	5,538	19,750	78 1	147,673	307	31
1922.....	37,124	8,573	28,551	76 9	238,313	512	94
1923.....	56,978	19,380	37,598	66 0	373,497	1,237	85
1924.....	44,270	10,286	33,984	76 8	244,042	660	83
1925.....	51,267	11,355	39,912	77 9	262,559	954	202
1926.....	56,866	12,489	44,377	78 0	307,773	987	285
1927.....	51,092	7,207	43,885	85 9	262,321	807	169
1928 <sup>2</sup> .....	52,582	4,376	48,206	91 7	( <sup>3</sup> )	1,098	148

<sup>1</sup> Imports entered for consumption, prior to 1925<sup>2</sup> Preliminary.<sup>3</sup> Not available.

Source Bureau of Mines, Department of Commerce

No. 766.—COKE: BY-PRODUCT AND BEEHIVE PRODUCTION, BY STATES  
[Figures in thousands of short tons (2,000 pounds)]

	1915	1920	1922	1923	1924	1925	1926	1927	1928 <sup>1</sup>
<b>BY-PRODUCT</b>									
Total.....	14,073	30,834	28,551	37,598	33,984	39,912	44,377	43,885	48,206
Alabama.....	2,070	3,124	3,494	4,385	4,386	4,582	4,780	4,364	4,330
Colorado.....	.....	517	365	448	523	490	593	594	606
Illinois.....	1,687	2,137	1,983	3,187	2,355	3,012	3,337	3,014	3,223
Indiana.....	2,768	4,554	3,996	5,043	4,272	5,142	5,990	5,550	5,989
Kentucky.....	242	467	457	434	.....	.....	.....	( <sup>2</sup> )	( <sup>2</sup> )
Maryland.....	313	682	590	862	810	1,019	1,121	1,077	1,176
Massachusetts.....	504	488	407	554	398	535	574	744	729
Michigan.....	( <sup>2</sup> )	1,393	1,142	1,649	1,771	1,751	1,827	1,920	2,380
Minnesota.....	128	675	462	696	515	518	620	633	631
New Jersey.....	269	726	791	898	869	904	913	906	916
New York.....	684	1,040	1,495	1,784	1,601	2,220	2,828	3,603	3,700
Ohio.....	666	5,615	4,912	6,324	5,723	7,105	7,548	7,214	7,738
Pennsylvania.....	3,092	7,730	7,152	9,186	8,426	9,853	11,200	11,061	13,623
West Virginia.....	141	447	502	941	999	1,056	1,130	1,396	1,368
All other States.....	1,507	1,239	804	1,208	1,335	1,725	1,916	1,808	1,797
<b>BEEHIVE</b>									
Total.....	27,508	20,511	8,573	19,380	10,266	11,355	12,489	7,207	4,376
Pennsylvania.....	22,531	15,908	6,840	16,439	8,501	9,574	10,722	5,716	} 3,179
Ohio.....	19	87	99	150	110	156	85	527	
West Virginia.....	1,250	1,381	418	822	330	490	584	.....	} 810
Alabama.....	1,001	890	306	269	155	88	( <sup>2</sup> )	( <sup>2</sup> )	
Kentucky.....	285	273	31	126	79	( <sup>2</sup> )	148	( <sup>2</sup> )	} 145
Tennessee.....	234	163	86	180	132	128	122	105	
Virginia.....	630	1,028	379	775	485	422	371	317	} ( <sup>2</sup> )
Colorado.....	671	273	119	200	212	155	197	194	
Utah.....	( <sup>2</sup> )	( <sup>2</sup> )	172	233	160	146	122	85	} 113
All other States.....	887	500	123	188	123	196	133	263	

<sup>1</sup> Figures are preliminary<sup>4</sup> Including Georgia<sup>2</sup> Included under "all other States"<sup>5</sup> Including Washington.<sup>3</sup> Virginia figures included in West Virginia.

Source Bureau of Mines, Department of Commerce.

**No. 767.—MANUFACTURED GAS INDUSTRY: MATERIALS USED AND PRODUCTS**

NOTE.—These figures cover establishments engaged primarily in the commercial manufacture of gas to be delivered through mains. Gas produced and consumed within the same establishment, blast-furnace gas, and gas resulting from by-product coke-oven operation are not included.

Material or product	Unit	Quantity (thousands of unit specified)			Cost or value (thousands of dollars)		
		1914	1925	1927	1914	1925	1927
<b>Materials used, total cost</b> .....					76, 779	178, 423	211, 786
Coal for gas making.....	Short ton <sup>1</sup>	6, 117			20, 873		
Anthracite.....	Long ton <sup>2</sup>		619	113			
Bituminous.....	Short ton <sup>1</sup>		6, 871	8, 102			
Oil for gas making.....	Gallon.....	715, 419	212, 211	230, 729	24, 721		
Oil for carbureting.....	do.....		679, 378	683, 048			
Gas purchased.....	M. cu. ft.	28, 351	64, 569	96, 618	8, 883		
<b>Products, total value</b> .....					220, 238	455, 460	516, 705
Commercial plants.....					218, 481	448, 218	509, 277
Municipal plants.....					1, 757	7, 242	7, 428
<b>Gas for sale, total</b> .....	M. cu. ft.	203, 639	359, 402	412, 236	175, 068	395, 969	446, 245
Coal gas.....	do.....	10, 510	7, 411	( <sup>3</sup> )	10, 727	12, 481	( <sup>3</sup> )
Carbureted water gas.....	do.....	90, 018	112, 186	( <sup>3</sup> )	74, 517	136, 624	( <sup>3</sup> )
Mixed coal and water gas.....	do.....	86, 281	210, 743	( <sup>3</sup> )	72, 012	213, 918	( <sup>3</sup> )
Oil gas.....	do.....	16, 512	24, 289	( <sup>3</sup> )	15, 044	29, 040	( <sup>3</sup> )
Other gas.....	do.....	318	4, 774	( <sup>3</sup> )	2, 766	3, 904	( <sup>3</sup> )
Coke for sale.....	Short ton <sup>1</sup>	2, 282	2, 398	2, 977	8, 720	20, 721	25, 514
Tar for sale.....							
Coal gas.....	Gallon.....		63, 803	78, 691	3, 253	3, 547	4, 449
Water gas and oil gas.....	do.....	125, 939	61, 471	83, 479		2, 594	3, 763
All other products.....					33, 199	32, 631	36, 729

<sup>1</sup> 2,000 pounds.<sup>2</sup> 2,240 pounds.<sup>3</sup> Not called for on schedule

Source: Bureau of the Census, Department of Commerce.

**No. 768.—PRODUCTION, PURCHASE, AND SALE OF GAS BY COMPANIES ENGAGED IN THE MANUFACTURED-GAS INDUSTRY**

[In millions of cubic feet]

Year	Gas sold	Year	Gas sold	Year	Total gas produced and purchased	Produced	Purchased		Gas sold
							Coke-oven gas	Natural gas	
1904.....	113, 930	1912.....	178, 229	1920.....	350, 232	300, 823	<sup>1</sup> 49, 409	-----	319, 888
1905.....	112, 444	1913.....	188, 286	1921.....	360, 392	295, 162	37, 393	27, 837	326, 950
1906.....	122, 850	1914.....	198, 839	1922.....	389, 000	300, 682	52, 883	35, 435	350, 000
1907.....	132, 012	1915.....	204, 310	1923.....	418, 000	313, 718	65, 872	38, 410	384, 722
1908.....	138, 570	1916.....	231, 381	1924.....	441, 381	324, 765	63, 350	53, 266	405, 206
1909.....	143, 118	1917.....	264, 493	1925.....	457, 100	324, 400	76, 600	56, 100	421, 406
1910.....	149, 431	1918.....	271, 593	1926.....	492, 042	353, 886	83, 640	54, 516	455, 631
1911.....	159, 101	1919.....	300, 000	1927.....	508, 322	354, 466	91, 270	62, 597	471, 000
				1928 <sup>2</sup> .....	528, 000	351, 000	104, 000	73, 000	490, 000

<sup>1</sup> Includes all other processes not segregated<sup>2</sup> Preliminary

Source: American Gas Association

**No. 769.—AVERAGE NET PRICE OF MANUFACTURED GAS**

NOTE.—Net prices for the first 1,000 cubic feet for household use in cities specified in the first section of Table 770

Date	Actual	Relative	Date	Actual	Relative	Date	Actual	Relative
Apr. 15, 1913.....	\$0 95	100	Apr. 15, 1919.....	\$1 04	110	Dec. 15, 1924.....	\$1. 24	131
Apr. 15, 1914.....	. 94	99	Apr. 15, 1920.....	1 09	115	Dec. 15, 1925.....	1. 23	130
Apr. 15, 1915.....	. 93	98	May 15, 1921.....	1 32	139	Dec. 15, 1926.....	1 22	128
Apr. 15, 1916.....	. 92	97	Mar. 15, 1922.....	1 29	136	Dec. 15, 1927.....	1 22	128
Apr. 15, 1917.....	. 91	96	Mar. 15, 1923.....	1 25	132	Dec. 15, 1928.....	1. 22	128
Apr. 15, 1918.....	. 95	100	Mar. 15, 1924.....	1 24	131			

Source: Bureau of Labor Statistics, Department of Labor.

## No. 770.—RETAIL PRICES OF GAS IN PRINCIPAL CITIES

NOTE.—Prices are net per 1,000 cubic feet of gas for household use. Prices for manufactured gas are based on a family consumption of 3,000 cubic feet per month. In cities where a service charge or a sliding scale is in operation families using less than 3,000 cubic feet per month pay a somewhat higher rate than shown, while those consuming more than this amount pay a lower rate. The figures represent quite closely the actual monthly cost of gas per 1,000 cubic feet to the average wage-earner's family. Prices for natural gas and for manufactured and natural mixed gas are based on a family consumption of 5,000 cubic feet per month.

City	Apr 15, 1913	Apr 15, 1915	Apr 15, 1916	Apr 15, 1917	Apr 15, 1918	Apr 15, 1919	Apr 15, 1920	May 15, 1921	June 15, 1922	June 15, 1923	June 15, 1924	June 15, 1925	June 15, 1926	June 15, 1927	June 15, 1928	Dec 15, 1928
MANUFACTURED GAS																
Atlanta	\$1.00	\$1.00	\$1.00	\$1.00	\$1.00	\$1.15	\$1.15	\$1.90	\$1.65	\$1.65	\$1.55	\$1.55	\$1.55	\$1.55	\$1.55	\$1.55
Baltimore	.90	.80	.75	.75	.75	.75	.75	.75	.92	.92	.85	.85	.85	.85	.85	.85
Birmingham	1.00	.95	.95	.95	.95	.95	.95	.88	.88	.80	.80	.80	.80	.80	.80	.80
Boston	.81	.80	.80	.80	.86	1.05	1.05	1.08	1.32	1.25	1.20	1.18	1.18	1.18	1.18	1.18
Bridgeport	1.00	1.00	1.00	1.00	1.00	1.10	1.10	1.47	1.50	1.50	1.45	1.45	1.45	1.45	1.45	1.45
Buffalo	1.00	1.00	1.00	1.00	1.00	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45
Butte	1.49	1.49	1.49	1.49	1.49	1.49	1.49	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10
Charleston, S. C.	1.10	1.10	1.10	1.00	1.10	1.10	1.25	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55
Chicago	.80	.80	.80	.80	.72	.90	.87	1.20	1.07	1.07	1.02	1.02	1.02	1.02	.98	.98
Cleveland	.80	.80	.80	.80	.80	.80	.80	.80	.80	.80	.80	1.25	1.25	1.25	1.25	1.25
Denver	.85	.80	.80	.80	.85	.95	.95	.95	.95	.95	.95	.95	.95	.90	.90	.90
Detroit	.75	.75	.75	.75	.75	.79	.79	.85	.79	.82	.82	.82	.82	.79	.79	.79
Fall River	.80	.80	.80	.80	.95	.95	1.05	1.25	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
Houston	1.00	1.00	1.00	1.00	1.00	1.00	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09
Indianapolis	.60	.55	.55	.55	.55	.60	.60	.90	1.20	1.15	1.15	1.15	1.15	1.05	1.05	.95
Jacksonville	1.20	1.15	1.15	1.15	1.25	1.25	1.50	1.75	1.65	1.65	1.97	1.97	1.97	1.92	1.92	1.92
Manchester	1.10	1.00	1.00	1.00	1.00	1.18	1.18	1.58	1.48	1.38	1.38	1.38	1.38	1.35	1.35	1.34
Memphis	1.00	1.00	1.00	.93	.93	.93	.27	1.35	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
Milwaukee	.75	.75	.75	.75	.75	.75	.75	.90	.86	.82	.82	.82	.82	.82	.82	.82
Minneapolis	.85	.80	.77	.77	.77	.77	.95	.95	1.28	1.02	1.05	1.01	.95	.97	.96	.94
Mobile	1.10	1.10	1.10	1.10	1.10	1.35	1.35	1.80	1.80	1.80	1.80	1.80	1.80	1.76	1.76	1.76
Newark	1.00	.90	.90	.90	.97	.97	1.15	1.40	1.25	1.25	1.20	1.20	1.20	1.20	1.20	1.20
New Haven	.90	.90	.90	.90	1.00	1.10	1.10	1.27	1.18	1.18	1.18	1.18	1.18	1.13	1.13	1.13
New Orleans	1.10	1.00	1.00	1.00	1.00	1.30	1.30	1.30	1.45	1.30	1.30	1.30	1.30	1.30	1.30	1.30
New York	.84	.83	.83	.83	.83	.85	.87	1.40	1.31	1.23	1.23	1.23	1.23	1.24	1.24	1.25
Norfolk	1.00	1.00	1.00	1.00	1.20	1.20	1.60	1.40	1.40	1.40	1.40	1.40	1.33	1.33	1.33	1.33
Omaha	1.15	1.15	1.00	1.00	1.15	1.15	1.15	1.47	1.18	1.18	1.18	1.08	1.08	1.08	1.08	1.00
Peoria	.90	.90	.90	.85	.85	.85	.85	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
Philadelphia	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Pittsburgh	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Portland, Me.	1.10	1.00	1.00	1.00	1.00	1.40	1.40	1.85	1.65	1.55	1.55	1.55	1.50	1.42	1.42	1.42
Portland, Oreg.	.95	.95	.95	.95	.95	.95	.95	1.38	1.25	1.16	1.16	1.16	1.19	1.17	1.17	1.17
Providence	.85	.85	.85	.85	1.00	1.30	1.30	1.42	1.42	1.22	1.22	1.17	1.17	1.13	1.13	1.13
Richmond	.90	.90	.80	.80	.80	1.00	1.00	1.30	1.30	1.30	1.30	1.30	1.29	1.29	1.29	1.29
Rochester	.95	.95	.95	.95	.95	.95	.95	1.18	1.10	1.05	1.00	1.00	1.00	1.00	1.00	1.00
St. Louis	.80	.80	.80	.75	.75	.75	.85	1.05	1.05	1.00	1.00	1.00	1.00	1.00	1.00	1.00
St. Paul	.95	.90	.85	.85	.85	.85	.85	1.00	1.00	.85	.85	.85	.90	.90	.90	.90
Salt Lake City	.87	.87	.87	.87	.87	1.15	1.35	1.57	1.57	1.57	1.57	1.54	1.53	1.52	1.51	1.51
San Francisco	.75	.85	.85	.85	.85	.95	.95	1.05	1.02	.92	1.00	1.05	.95	.95	.94	.94
Savannah	1.23	1.60	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45
Seranton	.95	.95	.95	.95	1.15	1.30	1.30	1.70	1.60	1.50	1.50	1.50	1.50	1.40	1.40	1.40
Seattle	1.00	1.00	1.00	1.00	1.20	1.20	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45
Springfield, Ill.	1.00	1.00	1.00	1.00	1.00	1.10	1.10	1.40	1.40	1.35	1.35	1.35	1.25	1.25	1.25	1.25
Washington	.93	.93	.93	.80	.90	.95	.95	1.25	1.05	1.05	1.00	1.00	1.00	1.00	1.00	1.00
NATURAL GAS																
Buffalo	\$0.30	\$0.30	\$0.30	\$0.30	\$0.30	\$0.35	\$0.35	\$0.35	\$0.42	\$0.50	\$0.50	\$0.50	\$0.75	\$0.75	\$0.75	\$0.75
Cincinnati	.30	.30	.30	.30	.35	.35	.35	.35	.50	.50	.50	.50	.60	.60	.60	.60
Cleveland	.30	.30	.30	.30	.35	.35	.35	.35	.40	.55	.55	.55	.60	.60	.60	.60
Columbus	.30	.30	.30	.30	.30	.30	.30	.30	.45	.45	.45	.55	.55	.48	.48	.48
Dallas	.45	.45	.45	.45	.45	.45	.45	.68	.68	.68	.68	.74	.74	.79	.79	.79
Denver	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Houston	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Kansas City	.27	.27	.27	.30	.60	.80	.80	.90	.95	.95	.95	.95	.95	.95	.95	.95
Little Rock	.40	.40	.40	.40	.40	.45	.45	.45	.45	.45	.65	.65	.65	.65	.65	.65
Los Angeles	---	---	---	---	---	---	---	---	---	---	---	---	---	.91	.91	.84
Louisville	---	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45
New Orleans	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	.95
Pittsburgh	.28	.28	.28	.28	.28	.35	.35	.45	.50	.50	.55	.60	.60	.60	.60	.60
MANUFACTURED AND NATURAL GAS MIXED																
Buffalo	---	---	---	---	---	---	---	---	---	\$0.62	\$0.62	\$0.60	\$0.65	\$0.65	\$0.65	\$0.55
Los Angeles	---	---	---	---	---	---	---	---	---	.68	.68	.68	.68	.68	.68	.68

Source: Bureau of Labor Statistics, Department of Labor.

## No. 771.—NATURAL GAS AND NATURAL GASOLINE

NOTE.—Quantities of gas in millions of cubic feet, of gasoline in thousands of gallons; values in thousands of dollars. Production figures for gas refer only to that marketed, in addition to which considerable quantities are used by producers, and large quantities are wasted or lost. Values given are at the point of consumption. Consumption figures by States differ greatly from production figures by reason of interstate transportation

Yearly average or year	Natural gas produced and marketed		Natural gasoline			Year	Natural gas produced and marketed		Natural gasoline		
	Quantity	Value	Gas treated	Production	Value		Quantity	Value	Gas treated	Production	Value
1906-1910.....	437,057	57,940	-----	-----	-----	1920-----	798,210	196,194	496,431	384,744	71,788
1911-1915.....	575,708	88,492	11,602	30,317	2,481	1921-----	662,052	174,617	465,097	449,934	61,815
1916-1920.....	762,681	154,590	412,787	268,038	48,174	1922-----	762,546	221,535	545,139	505,832	72,711
1921-1925.....	947,419	229,002	820,445	762,151	82,205	1923-----	1,006,976	240,001	875,711	816,222	77,268
1915-----	628,579	101,312	24,064	65,365	5,151	1924-----	1,141,521	253,856	1,016,276	933,861	82,233
1916-----	753,170	120,227	208,705	103,493	14,331	1925-----	1,188,571	285,271	1,040,300	1,127,470	120,353
1917-----	795,110	142,089	429,283	217,384	40,189	1926-----	1,313,019	300,168	1,206,300	1,363,090	136,412
1918-----	721,001	153,554	449,109	282,536	50,364	1927-----	1,445,428	317,930	1,341,245	1,641,444	115,688
1919-----	745,916	160,888	480,404	351,535	64,197	1928-----	1,540,000	333,000	1,500,000	1,776,000	135,800

State	Natural gas produced and marketed					Natural gas consumed	Natural gasoline produced.		
	1915	1920	1925	1926	1927		1926	1927	1928 <sup>1</sup>
Total.....	828,579	798,210	1,188,571	1,313,019	1,445,428	1,445,244	1,363,800	1,641,144	1,776,000
Arkansas-----	<sup>2</sup> 992	19,050	41,878	43,566	30,450	40,916	30,385	37,498	32,500
California-----	21,891	69,041	187,789	204,915	212,364	212,364	389,366	498,020	545,200
Illinois-----	2,690	3,013	4,165	3,808	3,741	3,741	9,987	8,853	7,300
Indiana-----	2,261	4,435	1,168	901	1,124	2,166	-----	-----	-----
Kansas-----	27,046	33,140	26,917	38,095	42,646	66,618	25,369	36,095	35,700
Kentucky-----	1,667	15,297	10,770	10,401	10,206	16,694	7,689	7,480	6,900
Louisiana-----	25,540	46,219	152,620	157,423	186,961	170,310	43,557	44,844	55,500
New York-----	7,977	19,127	<sup>3</sup> 6,210	<sup>3</sup> 7,027	<sup>3</sup> 5,908	16,174	539	449	( <sup>6</sup> )
Ohio-----	79,510	136,872	43,235	47,363	51,381	112,603	10,817	12,167	13,100
Oklahoma-----	87,517	126,689	249,285	286,421	326,864	286,485	475,716	548,109	616,300
Pennsylvania-----	113,682	161,397	101,632	107,089	105,710	121,982	20,343	16,744	17,700
Texas-----	13,324	49,467	<sup>4</sup> 134,872	<sup>4</sup> 175,392	<sup>4</sup> 254,063	269,944	243,093	320,723	331,000
West Virginia-----	244,004	100,289	180,345	180,223	162,375	66,200	63,807	64,192	68,700
Wyoming-----	<sup>5</sup> 342	10,312	45,539	46,567	43,582	42,559	40,625	43,212	42,800
All other-----	126	6,862	2,146	3,819	8,054	16,488	1,797	2,768	3,300

<sup>1</sup> Preliminary

<sup>2</sup> Includes gas piped from Oklahoma and consumed in Arkansas

<sup>3</sup> Includes 68,000,000 cubic feet piped to Canada in 1925, 79,000,000 in 1926, and 71,000,000 in 1927

<sup>4</sup> Includes 64,000,000 cubic feet piped to Mexico in 1925, 87,000,000 in 1926, and 113,000,000 in 1927.

<sup>5</sup> Includes Colorado

<sup>6</sup> Not shown separately

## No. 772.—ASPHALT: PRODUCTION, EXPORTS, AND IMPORTS

Quantity and value	1910	1915	1920	1925	1927	1928 <sup>1</sup>
QUANTITY, TONS OF 2,000 POUNDS						
Asphalt produced and sold.....	260,080	1,128,572	1,944,772	3,763,220	4,790,490	4,804,600
From domestic petroleum.....	161,187	664,503	700,496	1,206,700	1,525,420	1,741,192
From Mexican petroleum.....	-----	388,318	1,045,779	1,971,670	2,426,030	2,264,137
Native asphalt.....	98,893	75,751	198,497	584,850	839,040	799,071
Asphalt and related bitumen imported.....	186,311	139,662	130,599	125,250	161,924	125,039
Asphalt exported, unmanufactured <sup>2</sup> .....	-----	38,203	51,706	121,849	424,907	518,625
VALUE, THOUSANDS OF DOLLARS						
Asphalt produced and sold.....	3,080	8,973	27,472	46,974	60,397	55,218
From domestic petroleum.....	2,226	4,716	11,985	15,306	19,019	20,425
From Mexican petroleum.....	-----	3,730	14,273	27,520	35,772	29,688
Native asphalt.....	854	526	1,214	4,148	5,606	5,105
Asphalt and related bitumen imported.....	736	919	1,647	1,270	1,778	1,459
Asphalt exported.....	-----	-----	-----	-----	-----	-----
Unmanufactured <sup>3</sup> .....	-----	736	1,356	2,588	9,359	10,472
Manufactured.....	-----	439	842	2,526	2,400	2,022

<sup>1</sup> Preliminary <sup>2</sup> Native asphalt and related bitumen <sup>3</sup> Includes petroleum asphalt, beginning 1925.  
Source. Tables 771 and 772, Bureau of Mines, Department of Commerce.

## No. 773.—PRODUCTION OF CRUDE PETROLEUM

[Quantities in thousands of barrels (42 gallons); values in thousands of dollars]

Yearly average	Quantity	Value	Year	Quantity	Value	Year	Quantity	Value
1861-1865----	2, 479	9, 965	1903-----	100, 461	94, 694	1916-----	300, 767	330, 900
1866-1870----	4, 013	15, 795	1904-----	117, 081	101, 175	1917-----	335, 316	522, 635
1871-1875----	8, 221	16, 430	1905-----	134, 717	84, 157	1918-----	355, 928	703, 944
1876-1880----	16, 516	22, 926	1906-----	126, 494	92, 445	1919-----	378, 367	760, 266
1881-1885----	25, 508	22, 933	1907-----	166, 095	120, 107	1920-----	442, 929	1, 360, 745
1886-1890----	32, 960	23, 830	1908-----	178, 527	129, 079	1921-----	472, 183	814, 745
1891-1895----	51, 095	35, 708	1909-----	183, 171	128, 329	1922-----	557, 551	895, 111
1896-1900----	59, 498	56, 836	1910-----	209, 557	127, 900	1923-----	732, 407	978, 480
1901-1905----	102, 083	83, 524	1911-----	220, 449	134, 045	1924-----	713, 940	1, 022, 683
1906-1910----	172, 769	119, 572	1912-----	222, 935	164, 213	1925-----	763, 743	1, 284, 980
1911-1915----	247, 739	185, 793	1913-----	248, 446	237, 121	1926-----	770, 874	1, 447, 760
1916-1920----	362, 661	735, 698	1914-----	266, 763	214, 125	1927-----	901, 129	1, 172, 830
1921-1925----	647, 961	999, 186	1915-----	281, 104	179, 463	1928 <sup>1</sup> -----	900, 364	1, 080, 437

<sup>1</sup> Preliminary

Source Bureau of Mines, Department of Commerce.

## No. 774.—PETROLEUM PRODUCTION, IMPORTS, EXPORTS, AND BUNKER OIL LADEN ON VESSELS IN FOREIGN TRADE

NOTE.—Exports of refined oils include residuum prior to 1913 and exclude it thereafter. Exports exclude reexports of imported oils

Period	Quantity (thousands of barrels of 42 gallons)						Value (millions of dollars)					
	Production, crude oil	Imports		Exports		Bunker oil	Imports		Exports		Bunker oil	
		Crude oil	Refined oils	Crude oil	Refined oils		Crude oil	Refined oils	Crude oils	Refined oils		
1871-1880----	12, 519	( <sup>1</sup> )	( <sup>1</sup> )	528	6, 026	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2. 4	37. 7	( <sup>1</sup> )	
1881-1890----	29, 249	( <sup>1</sup> )	( <sup>1</sup> )	1, 719	12, 084	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5. 1	43. 7	( <sup>1</sup> )	
1891-1895----	51, 095	( <sup>1</sup> )	( <sup>1</sup> )	2, 606	16, 751	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5. 0	40. 8	( <sup>1</sup> )	
1896-1900----	59, 498	( <sup>1</sup> )	( <sup>1</sup> )	2, 907	20, 240	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5. 8	57. 1	( <sup>1</sup> )	
1901-1905----	102, 083	( <sup>1</sup> )	( <sup>1</sup> )	3, 029	22, 317	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6. 3	68. 5	( <sup>1</sup> )	
1906-1910----	172, 769	<sup>2</sup> 295	( <sup>1</sup> )	3, 686	30, 521	( <sup>1</sup> )	<sup>2</sup> 0. 7	( <sup>1</sup> )	6. 4	90. 4	( <sup>1</sup> )	
1911-1915----	247, 739	12, 080	293	4, 134	44, 475	( <sup>1</sup> )	7. 6	1. 1	6. 1	125. 8	( <sup>1</sup> )	
1916-1920----	362, 661	49, 531	1, 396	5, 413	58, 896	11, 681	26. 5	5. 0	14. 1	323. 7	24. 2	
1921-1925----	647, 961	94, 857	12, 545	13, 330	76, 455	36, 501	68. 0	22. 2	22. 5	363. 6	55. 9	
1911-----	220, 449	1, 461	182	4, 806	37, 307	( <sup>1</sup> )	1. 9	. 5	6. 2	99. 8	( <sup>1</sup> )	
1912-----	222, 935	6, 909	406	4, 493	40, 352	( <sup>1</sup> )	4. 7	1. 4	6. 8	117. 4	( <sup>1</sup> )	
1913-----	248, 446	16, 979	435	4, 633	44, 622	( <sup>1</sup> )	10. 9	2. 1	8. 4	139. 7	( <sup>1</sup> )	
1914-----	265, 763	16, 913	336	2, 970	48, 716	<sup>3</sup> 1, 302	10. 0	1. 5	5. 0	133. 7	<sup>3</sup> 1. 1	
1915-----	281, 104	18, 139	44	3, 768	51, 377	3, 566	10. 4	. 2	4. 3	138. 3	3. 2	
1916-----	300, 767	20, 797	414	4, 096	57, 833	5, 530	12. 6	1. 3	7. 0	194. 5	5. 6	
1917-----	335, 316	30, 127	1, 401	4, 098	58, 999	5, 908	16. 3	4. 3	7. 7	245. 2	7. 4	
1918-----	355, 928	37, 736	1, 207	4, 901	59, 727	6, 603	21. 3	4. 4	12. 1	332. 2	11. 7	
1919-----	378, 367	52, 822	1, 340	5, 924	52, 641	14, 031	26. 4	5. 0	14. 3	327. 0	29. 4	
1920-----	442, 929	106, 175	2, 619	8, 045	65, 278	26, 335	55. 8	10. 1	29. 0	519. 3	66. 7	
1921-----	472, 183	125, 364	3, 412	8, 865	57, 534	27, 076	66. 5	10. 8	20. 2	363. 5	57. 2	
1922-----	557, 531	127, 308	8, 639	9, 995	59, 502	31, 692	70. 4	17. 8	18. 3	312. 6	43. 7	
1923-----	732, 407	82, 015	17, 592	17, 061	77, 893	37, 582	53. 9	24. 3	23. 1	327. 0	52. 2	
1924-----	713, 940	77, 775	16, 760	17, 605	93, 411	43, 328	73. 8	26. 9	26. 5	392. 3	58. 0	
1925-----	763, 743	61, 824	16, 324	13, 125	93, 843	42, 827	75. 4	31. 3	24. 3	422. 6	68. 2	
1926-----	770, 874	60, 382	20, 902	15, 406	108, 398	46, 662	79. 3	44. 6	28. 5	497. 2	71. 0	
1927-----	901, 129	58, 383	13, 281	15, 843	115, 399	50, 051	78. 6	33. 6	25. 9	429. 7	73. 0	
1928-----	900, 364	79, 767	11, 701	18, 961	126, 157	51, 125	90. 5	40. 9	26. 8	465. 2	59. 3	

<sup>1</sup> Data are not available<sup>2</sup> Average for years 1908-1910 for total mineral oils<sup>3</sup> July to December. Reports for July and August did not include San Francisco

Source. Bureau of Mines and Bureau of Foreign and Domestic Commerce, Department of Commerce.

# No. 775.—PETROLEUM, CRUDE: PRODUCTION BY REGIONS AND STATES, AND APPROXIMATE WORLD PRODUCTION

[In thousands of barrels of 42 gallons]

Section	1891- 1900 (aver- age)	1901- 1910 (aver- age)	1911- 1915 (aver- age)	1916- 1920 (aver- age)	1921- 1925 (aver- age)	1926	1927	1928 (prelim- inary)	Produ- tion since 1857
World total <sup>1</sup> .....	110, 818	236, 795	384, 345	541, 733	944, 788	1, 096, 887	1, 261, 073	1, 322, 896	17, 143, 450
United States <sup>2</sup> .....	55, 297	137, 428	247, 739	362, 661	647, 961	770, 874	901, 129	<sup>3</sup> 900, 364	11, 242, 039
Per cent of total.....	50 0	58 0	64 4	66 8	68 6	70 5	71 5	68. 1	65. 6
Regions									
Appalachian.....	33, 267	28, 943	24, 594	27, 161	28, 504	28, 572	30, 454	30, 968	1, 510, 814
Lima-Indiana <sup>4</sup> .....	19, 720	17, 253	5, 052	3, 468	2, 297	2, 030	1, 835	1, 677	472, 097
Illinois <sup>5</sup> .....	( <sup>6</sup> )	12, 659	24, 955	13, 918	9, 585	8, 418	7, 720	7, 422	392, 443
Mid-continent.....	264	25, 088	87, 656	184, 616	343, 545	423, 867	546, 987	552, 980	4, 856, 444
Gulf <sup>6</sup> .....	( <sup>6</sup> )	17, 436	12, 357	24, 273	33, 688	45, 275	52, 069	45, 719	669, 013
Rocky Mountain.....	497	402	2, 605	11, 830	35, 258	37, 945	30, 429	29, 021	355, 900
California.....	1, 547	35, 641	90, 512	97, 384	195, 074	224, 673	231, 196	231, 982	2, 978, 003
States									
Arkansas.....					38, 644	58, 332	40, 005	32, 295	313, 853
California.....	1, 547	35, 641	90, 512	97, 384	195, 074	224, 673	231, 196	231, 982	2, 978, 003
Colorado.....	494	381	211	139	392	2, 768	2, 831	2, 722	21, 834
Illinois.....	( <sup>6</sup> )	12, 659	24, 955	13, 918	8, 115	7, 760	6, 994	6, 459	339, 249
Indiana.....	3, 520	6, 527	1, 167	865	1, 011	808	852	1, 053	115, 788
Kansas <sup>7</sup> .....	52	4, 603	2, 235	32, 556	32, 733	41, 498	41, 069	38, 332	505, 067
Kentucky <sup>7</sup> .....	11	696	484	5, 335	8, 044	6, 274	6, 719	7, 325	96, 747
Louisiana.....		4, 310	12, 997	19, 117	25, 759	23, 201	22, 818	21, 626	400, 111
Montana.....				129	2, 729	7, 727	5, 058	3, 925	31, 000
New Mexico <sup>8</sup> .....					<sup>9</sup> 554	1, 666	1, 226	959	5, 009
New York.....	1, 206	1, 153	920	864	1, 274	1, 956	2, 242	2, 573	68, 348
Ohio.....	19, 444	15, 677	8, 586	7, 583	7, 045	7, 272	7, 593	7, 030	535, 622
Oklahoma <sup>6</sup> .....	1	19, 076	68, 524	102, 209	155, 088	179, 195	277, 775	249, 558	2, 526, 405
Pennsylvania.....	19, 258	10, 538	8, 002	7, 662	7, 607	8, 961	9, 526	9, 876	816, 729
Texas.....	212	14, 534	16, 256	55, 008	127, 009	166, 916	217, 389	256, 888	1, 730, 020
West Virginia.....	9, 819	11, 605	10, 487	8, 311	6, 576	5, 946	6, 023	5, 704	361, 608
Wyoming.....	3	21	2, 394	11, 562	31, 901	25, 776	21, 307	21, 415	298, 025

<sup>1</sup> Estimated.

<sup>2</sup> Includes insignificant quantities not distributed by regions and States

<sup>3</sup> Does not include petroleum consumed on leases or remaining on producing properties

<sup>4</sup> Southwestern Indiana reported with Illinois beginning 1921, previously with Lima-Indiana region.

<sup>5</sup> Less than 500 barrels.

<sup>6</sup> Kansas includes report for Oklahoma in 1905 and 1906.

<sup>7</sup> Kentucky includes report for Tennessee from 1891 to 1907.

<sup>8</sup> Not shown separately prior to 1924.

<sup>9</sup> Average for years 1924 and 1925.

# No. 776.—STOCKS OF CRUDE AND REFINED MINERAL OILS ON DECEMBER 31

[In thousands of barrels of 42 gallons]

	1922	1923	1924	1925	1926	1927	1928
Stocks of crude petroleum, total <sup>1</sup> .....	291, 630	374, 512	417, 619	<sup>2</sup> 431, 646	<sup>3</sup> 403, 338	473, 379	485, 401
Stocks east of California <sup>1</sup> .....	233, 827	302, 500	312, 725	<sup>2</sup> 293, 852	278, 264	352, 038	368, 431
Light.....					225, 404	303, 539	320, 015
Heavy.....					52, 860	48, 499	48, 416
Pipe line and tank-farm stocks by field of origin, total.....	199, 038	267, 858	280, 807	264, 245	242, 180	312, 637	327, 643
Appalachian.....	8, 868	9, 210	9, 286	8, 493	7, 790	7, 334	5, 502
Lima-Indiana.....	685	975	1, 221	971	666	1, 134	1, 162
Illinois and southwestern Indiana.....	10, 140	11, 091	10, 870	10, 582	11, 770	12, 170	11, 867
Mid-continent.....	152, 573	202, 904	210, 558	195, 941	173, 848	246, 839	265, 807
Gulf coast.....	24, 781	23, 974	20, 200	19, 263	20, 031	17, 922	18, 304
Rocky Mountain.....	1, 991	19, 704	28, 672	28, 995	28, 075	27, 238	25, 501
Refinery stocks.....	<sup>4</sup> 33, 805	<sup>4</sup> 33, 259	31, 184	<sup>5</sup> 29, 200	35, 475	30, 317	40, 529
Foreign petroleum held by importers.....	964	1, 383	734	407	609	84	259
Producers' stocks (at wells).....	8, 428	9, 850	8, 389	7, 560	5, 904	7, 536	( <sup>6</sup> )
Stocks in California <sup>1</sup> .....	<sup>4</sup> 49, 375	<sup>4</sup> 62, 162	96, 505	<sup>3</sup> 130, 234	<sup>3</sup> 119, 170	113, 805	116, 970
Light.....			40, 541	44, 451	30, 861	20, 086	16, 995
Heavy <sup>1</sup> .....			55, 964	<sup>3</sup> 85, 783	<sup>3</sup> 88, 309	93, 719	99, 975
Natural-gas gasoline at plants.....			302	326	455	734	608
Stocks of refined oils <sup>6</sup> .....			102, 366	120, 449	123, 247	123, 030	128, 530
Grand total stocks all oils.....			520, 287	<sup>3</sup> 552, 421	<sup>3</sup> 527, 040	597, 143	614, 539

<sup>1</sup> Fuel oil held in California is included beginning 1924. <sup>2</sup> Exclusive of producers' stocks. <sup>3</sup> Revised.

<sup>4</sup> Refinery stocks in California are included with refinery stocks east of California prior to 1924.

<sup>5</sup> Not available.

<sup>6</sup> Includes wax, coke, asphalt, and residuum in barrels.

Source of Tables 775 and 776: Bureau of Mines, Department of Commerce.



## No. 777.—SUPPLY AND DEMAND OF CRUDE AND REFINED OILS

[In thousands of barrels of 42 gallons]

	1924	1925	1926	1927	1928
Total new supply of all oils.....	830,756	870,107	886,611	1,014,084	1,036,934
Domestic production, total.....	736,175	791,907	805,291	942,348	945,460
Crude petroleum.....	713,940	763,743	770,874	901,129	900,364
Natural gasoline.....	22,235	26,307	32,305	38,657	42,286
Benzol.....		1,857	2,112	2,562	2,810
Imports.....					
Crude.....	77,775	61,824	60,382	58,383	79,583
Refined <sup>1</sup> .....	16,806	16,376	20,938	13,353	11,891
Change in stocks <sup>2</sup> .....	+23,081	+30,120	-24,784	+68,471	+24,932
Total demand.....	802,675	839,987	911,375	945,613	1,012,002
Exports <sup>3</sup> .....					
Crude.....	18,239	13,337	15,407	15,844	18,973
Refined <sup>1</sup> .....	98,728	100,216	116,087	125,191	135,589
Domestic demand <sup>4</sup> .....	685,708	726,434	779,881	804,578	857,440
Bunker oil.....	43,328	42,827	46,662	50,051	51,125

<sup>1</sup> Includes wax, coke, asphalt, and residuum in barrels.<sup>2</sup> Data include crude petroleum (exclusive of producers' stocks east of California), fuel oil in California, refined products, and, except in 1924, natural gasoline.<sup>3</sup> Includes shipments to noncontiguous territories.<sup>4</sup> Includes bunker oil put on vessels engaged in foreign trade.

Source: Bureau of Mines, Department of Commerce.

## No. 778.—PETROLEUM REFINING: MATERIALS AND PRODUCTS

Material or product	Quantity (thousands of unit specified)				Cost or value (thousands of dollars)		
	Unit	1914	1925	1927	1914	1925	1927
Materials used, total cost.....					325,265	1,889,678	1,752,997
Crude petroleum.....	Barrel <sup>1</sup>	191,263	739,489	831,332	249,728	(?)	(?)
Partially refined oils, etc., purchased and rerun.....	do.	9,455	57,845	33,939	24,395	(?)	(?)
Natural gasoline.....	do.	(?)	23,223	26,383	(?)	(?)	(?)
Soda ash.....	Ton <sup>2</sup>	(?)	21	21	(?)	(?)	(?)
Caustic soda.....	do.	11	60	95	361	(?)	(?)
Sulphuric acid.....	do.	329	820	873	(?)	(?)	(?)
Sulphuric acid, reclaimed and reused.....	do.	(?)	345	344	(?)	(?)	(?)
All other.....					51,142	(?)	(?)
All products, total value.....					396,361	2,376,657	2,142,649
Gasoline.....	Gallon.....	1,195,422	10,726,262	12,491,833	106,140	1,218,236	1,022,012
Naphtha.....	do.	264,626	294,947	689,047	15,779	29,938	63,943
Benzine.....	do.	(?)	41,714	50,556	(?)	4,993	4,625
Tops.....	do.	(?)	215,948	159,904	(?)	12,117	6,574
Illuminating oils.....	do.	1,935,275	2,365,302	2,217,591	96,806	161,881	147,925
Fuel oils.....	do.						
Distillates.....	do.	457,492	1,204,937	976,670	15,999	51,743	44,287
Gas oils.....	do.	755,558	1,812,645	2,576,591	22,805	79,602	99,328
Residual fuel oil.....	do.	2,521,042	11,586,456	11,862,599	45,213	357,613	313,344
Partially refined oils sold for rerunning.....	do.	(?)	1,497,879	1,583,727	(?)	65,305	62,210
Lubricating oils.....	do.						
Pale or paraffin.....	do.	93,422	270,345	227,198	8,085	38,763	30,617
Red or neutral.....	do.	116,352	528,756	531,627	12,426	92,404	87,243
Cylinder oils.....	do.	102,949	206,884	219,673	13,704	47,226	43,036
All other lubricating oils.....	do.	205,115	355,087	403,403	21,598	73,712	83,793
Liquid asphaltic road oils.....	do.		274,317	204,799		12,512	9,308
Residuum or tar.....	do.	134,844	125,115	118,467	4,018	5,582	5,118
Greases.....	do.	14,006	45,820	63,039	3,536	13,921	12,961
Paraffin wax.....	do.	57,539	89,762	94,257	8,897	30,590	23,432
Asphalt, other than liquid.....	Ton <sup>2</sup>	465	2,276	2,642	4,867	30,461	37,884
Coke, petroleum.....	do.	214	924	1,244	819	6,438	7,170
Other special products.....					9,000	31,034	24,173
All other products.....					6,669	12,587	8,726

<sup>1</sup> 42 gallons.<sup>2</sup> No data.<sup>3</sup> Of 2,000 pounds.<sup>4</sup> Includes data for light products, other than gasoline, naphtha, and benzine, for later years included in "Other special products."

Source: Bureau of the Census, Department of Commerce.

# No. 779.—PETROLEUM PRODUCTS: OILS RUN TO STILLs, OUTPUT OF REFINERIES, STOCKS, EXPORTS, AND APPARENT CONSUMPTION OF PRODUCTS

Note.—Stocks are those in the hands of refiners only. Hence "apparent consumption" represents deliveries by refiners to dealers and consumers. Exports include shipments to noncontiguous territories. Consumption figures for kerosene, gas oil and fuel oil, and lubricating oil for 1922 to 1928 take into account comparatively small imports not shown separately, and for which no data were available prior to October, 1922. In 1928 these imports were as follows: Kerosene, 204,000 barrels, gas and fuel oil, 7,268,000 barrels, lubricants, 13,000 barrels

[In thousands of barrels of 42 gallons, except wax (thousand pounds), and coke and asphalt (thousand short tons of 2,000 pounds)]

Item	1918	1922	1923	1924	1925	1926	1927	1928
Crude oil run to stills-----	326, 025	500, 706	581, 238	643, 719	739, 920	779, 264	828, 835	912, 831
Domestic-----		425, 823	538, 252	597, 954	698, 582	734, 301	778, 729	835, 157
Foreign-----		74, 883	42, 986	45, 765	41, 338	44, 963	50, 106	77, 674
Natural gasoline run to stills or blended at refineries-----	2, 451	3, 662	5, 487	12, 671	1 10, 636	1 27, 696	1 32, 162	1 35, 365
Stocks of crude oil, end of year--	15, 750	33, 805	33, 259	40, 995	2 29, 200	2 35, 475	2 39, 317	2 40, 520
Gasoline-----								
Produced-----	85, 007	147, 672	179, 903	213, 326	259, 601	299, 734	330, 435	377, 183
Exported-----	13, 545	14, 156	20, 741	28, 967	31, 497	43, 313	44, 337	52, 897
Imported-----	307	1, 479	4, 555	3, 453	3, 813	5, 540	5, 002	4, 296
Stocks, end of year-----	7, 079	21, 043	28, 014	30, 823	38, 875	39, 023	33, 316	33, 066
Apparent consumption-----	74, 506	127, 906	156, 746	185, 003	223, 865	261, 813	296, 807	328, 832
Kerosene-----								
Produced-----	43, 461	54, 913	55, 927	60, 026	59, 689	61, 768	56, 113	60, 156
Exported-----	11, 820	21, 489	20, 347	21, 961	21, 212	22, 248	19, 537	22, 006
Stocks, end of year-----	9, 050	6, 692	7, 231	8, 594	7, 121	8, 575	7, 715	9, 001
Apparent consumption-----	34, 442	34, 854	35, 048	36, 712	39, 969	38, 140	37, 491	37, 008
Gas oil and fuel oil-----								
Produced-----	174, 319	254, 910	287, 481	320, 476	364, 991	365, 195	393, 066	425, 755
Exported-----	29, 637	18, 479	33, 372	37, 249	36, 088	38, 351	47, 391	44, 462
Stocks, end of year-----	15, 691	31, 065	36, 072	2 19, 556	2 24, 681	2 24, 898	2 34, 022	2 34, 926
Apparent consumption-----	142, 751	240, 010	261, 388	292, 452	(4)	(5)	(5)	(5)
Lubricants-----								
Produced-----	20, 035	23, 304	26, 128	27, 498	31, 055	32, 293	31, 721	34, 659
Exported-----	6, 165	7, 941	8, 372	9, 103	9, 678	9, 435	9, 776	11, 055
Stocks, end of year-----	3, 806	5, 613	6, 138	6, 420	7, 253	7, 576	7, 860	8, 340
Apparent consumption-----	13, 823	15, 528	17, 260	18, 124	20, 581	22, 568	21, 669	23, 187
Wax—production—1,000 lbs.--	505, 144	462, 003	466, 647	516, 491	590, 577	645, 815	584, 347	630, 144
Stocks, end of year—do-----	199, 658	204, 891	164, 758	89, 706	116, 391	185, 331	150, 638	110, 344
Coke—production—1,000 tons--	560	707	673	761	991	995	1, 145	1, 427
Stocks, end of year—do-----	23	36	263	98	238	291	345	437
Asphalt—production-----								
—1,000 tons-----	608	1, 895	2, 327	2, 546	2, 677	2, 923	3, 418	3, 297
Stocks, end of year—do-----	77	120	118	97	159	193	221	236
Other finished products-----		4, 627	5, 086	8, 252	8, 044	8, 030	7, 405	9, 401
Losses-----	14, 557	18, 562	18, 921	19, 590	22, 914	26, 928	28, 396	29, 028

<sup>1</sup> Includes natural gasoline run through pipe lines in California.

<sup>2</sup> Stocks east of California only.

<sup>3</sup> Not available

<sup>4</sup> 1927 data revised for comparison with 1928; earlier years not strictly comparable with 1927 and 1928.

# No. 780.—PETROLEUM PRODUCTS: CRUDE OIL RUN TO STILLs AND OUTPUT OF REFINERIES, BY REGIONS

[In thousands of barrels of 42 gallons, except wax, which is in thousands of pounds]

Region	Crude oil run to stills		Natural gasoline run to stills		Output of refineries, 1928				
	1927	1928	1927	1928	Gasoline	Kerosene	Gas oil and fuel oil	Lubricants	Wax
Total-----	828, 835	912, 831	32, 162	35, 365	377, 183	60, 156	425, 755	34, 959	630, 144
East coast-----	150, 559	170, 506	2, 468	2, 204	53, 694	8, 563	94, 023	10, 817	230, 352
Appalachian-----	28, 941	33, 643	737	732	15, 894	3, 719	7, 271	5, 109	95, 936
Indiana and Illinois-----	75, 807	98, 905	1, 916	2, 226	55, 716	6, 318	32, 715	3, 943	78, 405
Oklahoma and Kansas-----	101, 871	111, 342	4, 249	4, 632	60, 943	10, 239	37, 193	2, 639	46, 030
Texas-----	167, 095	186, 076	6, 129	6, 963	80, 863	14, 494	79, 349	8, 301	71, 118
Louisiana and Arkansas-----	70, 444	75, 540	4, 979	5, 082	23, 662	5, 814	33, 954	769	64, 319
Rocky Mountain-----	25, 026	26, 061	1, 148	1, 384	16, 497	1, 829	7, 100	620	43, 984
California-----	209, 092	210, 758	10, 536	12, 142	66, 914	9, 180	134, 150	2, 401	-----

Source. Tables 779 and 780, Bureau of Mines, Department of Commerce.

## No. 781.—PETROLEUM PIPE LINES

[All figures, except miles of line operated, in thousands of dollars]

Company and State or field served	Miles of line operated	Investment in pipe lines	Other investments	Pipe line operating revenues	Pipe line operating expenses	Pipe line operating income	Net income
ALL REPORTING COMPANIES							
1920.....	48,712	340,328	267,362	103,600	66,452	26,026	53,949
1921.....	55,200	365,024	287,114	115,950	62,370	25,530	34,400
1922.....	57,348	352,260	264,344	128,059	64,539	52,720	58,508
1923.....	64,700	432,065	305,841	131,213	69,234	52,678	62,639
1924.....	68,185	490,187	282,504	146,921	74,656	63,176	72,234
1925.....	70,009	511,088	93,896	164,643	80,232	70,966	88,495
1926.....	72,846	539,410	111,891	173,075	85,098	76,523	80,401
1927.....	76,070	609,439	105,927	195,561	90,287	92,719	93,239
COMPANIES REPORTING OPERATING REVENUES OF OVER \$500,000 IN 1927							
Buckeye Pipe Line Co.....	6,754	19,601	4,708	4,176	2,952	718	938
Cumberland Pipe Line Co.....	1,204	4,675	1,810	866	649	124	225
Empire Pipe Line Co.....	810	8,053	—	2,933	1,120	1,719	1,883
Eureka Pipe Line Co.....	4,984	11,454	1,905	1,931	1,935	94	5
Gulf Pipe Line Co.....	3,444	44,952	2,663	12,315	5,830	6,205	1,777
Gulf Pipe Line Co. of Oklahoma.....	1,393	10,784	—	5,253	1,900	3,209	3,446
Humble Pipe Line Co.....	5,177	66,602	—	25,351	11,589	13,535	14,255
Illinois Pipe Line Co.....	4,109	30,706	3,234	8,554	4,054	3,530	3,830
Indiana Pipe Line Co.....	917	5,123	4,170	1,673	693	744	984
Magnolia Pipe Line Co.....	4,940	55,009	—	15,737	5,707	9,684	10,156
Mariand Pipe Line Co.....	639	6,692	1	2,825	2,073	700	702
National Transit Co.....	3,539	8,844	9,593	1,279	1,316	62	572
Northern Pipe Line Co.....	615	3,095	3,353	501	267	180	337
Oklahoma Pipe Line Co.....	2,174	23,952	3	11,769	3,546	7,606	7,640
Prairie Pipe Line Co.....	12,042	91,296	63,175	33,765	13,563	16,399	18,328
Pure Oil Pipe Co. (Ohio).....	610	1,616	142	1,234	972	222	42
Shell Pipe Line Corporation.....	1,670	26,216	—	8,524	3,486	4,967	4,939
Shreveport-El Dorado Pipe Line Co. (Inc.).....	183	2,069	2	1,108	616	463	179
Sinclair Pipe Line Co.....	6,232	75,374	1,695	20,434	12,719	5,956	5,096
South West Pennsylvania Pipe Lines.....	1,692	4,455	1,898	962	639	275	362
Southern Pipe Line Co.....	1,131	5,952	2,260	538	405	105	222
Standard Pipe Line Co. (Inc.).....	1,893	28,968	32	12,820	4,404	7,283	7,262
Texas Pipe Line Co.....	3,625	36,778	—	12,418	5,067	6,108	6,277
Texas Pipe Line Co. of Oklahoma.....	1,538	7,888	133	3,328	1,474	1,495	1,636
Tide-Water Pipe Co. (Ltd.).....	2,139	11,027	115	2,824	1,525	1,219	1,393
Tuscarora Oil Co (Ltd.).....	586	6,623	45	1,254	750	458	587

Source Interstate Commerce Commission

## No. 782.—PETROLEUM: PRICES OF CRUDE AND REFINED PRODUCTS

NOTE.—Prices of crude and fuel oil in dollars per barrel of 42 gallons, others in cents per gallon. Compiled by Joseph C. Pogue. The weighted average prices are computed from five principal grades of crude oil at wells, from five markets each for kerosene and gasoline from tank wagon, from five refining locations for fuel oil, and for five grades of lubricating oil.

Year	Crude	Gasoline	Kerosene	Fuel oil	Lubricating oil	Month, 1928	Crude	Gasoline	Kerosene	Fuel oil	Lubricating oil
	Dolls	Cents	Cents	Dolls	Cents		Dolls	Cents	Cents	Dolls	Cents
1917.....	1 77	20 6	8 5	1 57	19 5	January.....	1 48	14 2	12 6	0 917	24 4
1918.....	2 22	21 7	10 2	2 01	30 9	February.....	1 48	14 2	12 6	.965	24 3
1919.....	2 25	22 2	12 7	1 59	32 2	March.....	1 48	14 2	12 6	1 00	24 3
1920.....	3 44	26 5	17 1	2 79	49 0	April.....	1 48	14 2	12 9	1 01	23 9
1921.....	1 86	22 3	12 9	1 30	27 6	May.....	1 48	14 4	13 0	.968	23 9
1922.....	1 78	21 7	12 4	1 24	20 4	June.....	1 49	14 4	13 0	.956	24 1
1923.....	1 71	17 5	12 8	1 20	19 4	July.....	1 53	14 4	12 6	.868	24 3
1924.....	1 84	15 9	12 7	1 35	23 0	August.....	1 57	15 4	13 0	.854	24 3
1925.....	1 96	16 6	12 3	1 46	26 1	September.....	1 58	15 4	12 9	.847	24 3
1926.....	2 03	17 5	14 7	1 47	26 1	October.....	1 61	15 4	12 9	.851	24 3
1927.....	1 55	15 0	12 9	1 14	25 3	November.....	1 64	15 3	13 0	.872	24 3
1928.....	1 54	14 7	12 9	91	24 3	December.....	1 67	15 0	13 1	.851	24 9

### No. 783.—PORTLAND CEMENT: PRODUCTION, SHIPMENTS, EXPORTS, AND IMPORTS

NOTE.—Imports are "Imports for consumption" and include all kinds of hydraulic cement, most of which is Portland. "Shipments" include exports made directly by manufacturers and shipments made by them to noncontiguous territories. (See Table 784.)

State	1910	1915	1920	1924	1925	1926	1927	1928
	Thousands of barrels of 376 pounds							
<b>Production, total</b> .....	78,550	85,915	100,023	149,358	161,659	164,530	173,207	176,195
Alabama.....	<sup>1</sup> 1,481	( <sup>2</sup> )	1,132	5,553	6,288	6,710	7,565	6,749
California.....	<sup>3</sup> 6,386	4,503	7,098	11,615	13,098	13,842	14,581	13,452
Illinois.....	4,459	5,157	5,539	6,994	7,101	6,747	7,017	7,335
Iowa.....	<sup>4</sup> 2,010	4,560	4,849	5,624	4,648	4,926	5,415	7,070
Kansas.....	5,656	3,580	4,341	5,894	6,511	6,358	6,180	6,574
Michigan.....	3,688	4,765	4,891	9,260	10,936	12,037	13,965	13,848
Missouri.....	4,456	4,627	6,018	7,871	8,332	7,653	6,778	7,581
New York.....	3,296	5,044	5,885	7,572	8,770	8,796	10,775	( <sup>5</sup> )
Ohio.....	1,528	1,949	1,780	4,601	5,715	7,556	8,854	9,233
Pennsylvania.....	26,676	28,649	28,269	40,850	42,347	42,866	43,732	41,522
Texas.....	<sup>6</sup> 2,287	1,939	2,562	4,568	4,858	5,007	5,656	6,346
Washington.....	( <sup>3</sup> )	1,496	1,799	1,842	2,482	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Other States.....	14,627	19,646	25,860	37,115	40,573	42,031	42,688	56,184
Shipments.....	( <sup>6</sup> )	86,892	96,312	146,048	157,295	162,187	171,865	175,735
Imports.....	307	42	525	2,024	3,667	3,244	2,066	2,802
Stocks, end of year.....	( <sup>6</sup> )	11,463	8,833	14,152	18,336	20,740	22,457	22,918

<sup>1</sup> Includes Georgia and Tennessee.

<sup>2</sup> Included in other States

<sup>3</sup> California includes Washington.

<sup>4</sup> Includes Kentucky and West Virginia.

<sup>5</sup> Includes Oklahoma.

<sup>6</sup> Not available

### No. 784.—PORTLAND CEMENT: SHIPMENTS BY DESTINATIONS

[In thousands of barrels of 376 pounds]

State	1925	1926	1927	1928	State	1925	1926	1927	1928
<b>Shipped from cement plants</b> .....	157,295	162,187	171,865	175,735	<b>Shipments to States—Con</b>				
<b>Shipments to States</b> .....	156,118	160,940	170,737	174,578	<b>South Atlantic</b>				
<b>New England</b> .....	6,864	6,733	6,942	7,604	Continued.				
Maine.....	334	548	506	522	West Virginia.....	1,483	1,680	1,562	1,360
New Hamp- shire.....	426	438	460	515	North Caro- lina.....	3,025	3,732	3,213	2,401
Vermont.....	217	272	393	606	South Caro- lina.....	864	639	986	1,508
Massachusetts.....	3,418	2,983	2,820	2,916	Georgia.....	1,438	1,831	1,905	1,742
Rhode Island.....	711	635	701	761	Florida.....	4,150	4,874	2,483	1,325
Connecticut.....	1,758	1,857	2,062	2,284	<b>East South Cen- tral</b> .....	6,104	6,377	7,463	8,513
<b>Middle Atlantic</b> .....	40,504	41,181	45,259	43,754	Kentucky.....	1,796	1,659	1,954	1,739
New York.....	18,489	20,225	23,003	22,321	Tennessee.....	1,644	1,933	2,263	2,698
New Jersey.....	7,082	7,116	8,419	8,437	Alabama.....	2,085	1,981	2,265	2,947
Pennsylvania.....	14,933	13,840	13,337	12,996	Mississippi.....	579	804	981	1,129
<b>East North Cen- tral</b> .....	42,294	44,332	48,043	51,121	<b>West South Cen- tral</b> .....	8,467	9,178	10,904	11,845
Ohio.....	9,221	9,684	10,342	11,013	Arkansas.....	800	770	855	1,251
Indiana.....	4,998	5,175	5,739	5,275	Louisiana.....	1,100	1,187	1,491	1,274
Illinois.....	14,405	14,067	14,833	17,677	Oklahoma.....	2,378	2,343	3,120	3,126
Michigan.....	9,565	10,784	11,576	11,776	Texas.....	4,189	4,878	5,438	6,194
Wisconsin.....	4,105	4,622	5,553	5,380	<b>Mountain</b> .....	2,960	3,204	3,159	3,658
<b>West North Cen- tral</b> .....	16,657	16,271	15,890	17,604	Montana.....	236	258	308	461
Minnesota.....	3,615	3,573	3,380	3,054	Idaho.....	259	444	311	295
Iowa.....	2,705	2,827	3,708	5,349	Wyoming.....	225	189	181	197
Missouri.....	5,601	5,202	4,207	4,718	Colorado.....	1,152	1,138	1,002	1,064
North Dakota.....	342	403	393	455	New Mexico.....	182	193	279	333
South Dakota.....	462	424	410	491	Arizona.....	424	426	562	693
Nebraska.....	1,675	1,555	1,360	1,196	Utah.....	381	461	428	508
Kansas.....	2,267	2,287	2,432	2,341	Nevada.....	101	95	87	107
<b>South Atlantic</b> .....	16,029	17,576	15,935	13,811	<b>Pacific</b> .....	16,179	16,031	17,102	16,584
Delaware.....	402	360	343	349	Washington.....	2,427	2,022	2,574	2,972
Maryland.....	2,127	2,319	2,652	2,242	Oregon.....	1,318	1,313	1,399	1,256
District of Columbia.....	886	907	932	890	California.....	12,434	12,691	13,129	12,356
Virginia.....	1,649	1,734	1,799	1,994	Unspecified.....	59	60	52	84
					Exports direct by manufacturers <sup>1</sup> .....	1,178	1,247	1,128	1,157

<sup>1</sup> Includes shipments to Alaska, Hawaii, and Porto Rico

Source of Tables 783 and 784: Bureau of Mines, Department of Commerce

**No. 785.—CEMENT PRODUCTION: QUANTITY, BY KINDS, AND TOTAL VALUE**

NOTE.—Portland cement is expressed in barrels of 376 pounds, masonry, natural, and puzzolan cement in 1921 and later years in 376-pound barrels but prior to 1921 in barrels of 240, 265, and 320 pounds, respectively. For 1912 through 1924 the figures for masonry, natural, and puzzolan cements represent shipments

Year	Production in thousands of barrels			Total value in thousands of dollars	Year	Production in thousands of barrels			Total value in thousands of dollars
	Total	Port-land	Mason-ry, nat-ural, and puzzolan			Total	Port-land	Mason-ry, nat-ural, and puzzolan	
1890.....	7,777	336	7,441	4,527	1915.....	86,708	85,915	794	74,285
1895.....	8,731	990	7,741	5,482	1916.....	92,363	91,521	842	101,379
1900.....	17,231	8,482	8,749	13,284	1917.....	93,454	92,814	639	126,106
1904.....	31,675	26,506	5,169	26,032	1918.....	71,515	71,082	433	114,132
1905.....	40,102	35,247	4,855	35,932	1919.....	81,307	80,778	529	138,714
1906.....	51,000	46,463	4,537	55,302	1920.....	100,791	100,023	767	203,198
1907.....	52,230	48,785	3,445	55,904	1921.....	99,381	98,842	539	187,708
1908.....	52,911	51,073	1,838	44,478	1922.....	115,679	114,790	889	203,324
1909.....	66,090	64,991	1,098	53,611	1923.....	138,732	137,460	1,272	263,122
1910.....	77,785	76,550	1,235	68,752	1924.....	150,777	149,358	1,418	272,345
1911.....	79,548	78,529	1,019	66,705	1925.....	163,388	161,659	1,729	<sup>1</sup> 281,076
1912.....	83,351	82,438	913	67,462	1926.....	166,635	164,530	2,105	<sup>1</sup> 280,786
1913.....	92,049	92,097	852	93,001	1927.....	175,330	173,207	2,124	<sup>1</sup> 281,736
1914.....	89,050	88,230	820	82,204	1928.....	178,406	176,196	2,210	<sup>1</sup> 278,796

<sup>1</sup> Value of shipments

Source. Bureau of Mines, Department of Commerce

**No. 786.—STONE: PRODUCTION (SALES), BY VARIETIES AND USES**

Variety and use	Quantity sold, thousands of short tons (2,000 pounds) <sup>1</sup>							Value, 1,000 dollars, 1927
	1921	1922	1923	1924	1925	1926	1927	
Total.....	63,539	80,212	103,319	103,184	115,851	124,496	136,345	198,647
Granite.....	4,752	5,913	7,300	6,884	8,074	9,330	10,707	35,287
Basalt and related rocks.....	8,524	10,033	10,674	11,673	11,842	12,978	13,211	17,400
Sandstone.....	2,640	3,388	4,349	3,895	4,499	4,979	5,051	10,923
Marble.....	2,815	428	563	516	564	563	600	15,626
Limestone.....	45,621	58,929	76,701	75,894	85,649	91,888	99,662	112,440
All other.....	1,685	1,521	3,731	4,324	5,242	4,759	7,115	6,971
Building stone.....	1,369	1,929	2,059	2,212	2,392	2,609	2,485	40,595
Monumental.....	230	248	424	394	363	360	358	14,979
Paving blocks.....	453	326	463	376	381	66	307	3,583
Curbing.....	184	266	252	296	393	346	378	4,940
Flagging.....	65	54	44	60	56	66	55	574
Rubble.....	445	632	882	865	1,197	540	809	998
Riprap.....	1,814	2,049	3,186	3,205	3,079	4,060	4,618	4,717
Crushed stone.....	43,203	49,764	62,323	68,198	75,673	82,516	94,949	97,474
Furnace flux (limestone and marble).....	10,669	18,718	25,602	19,690	22,861	23,859	21,666	15,986
Refractory stone.....	496	902	1,152	1,094	1,261	1,531	1,363	1,711
Manufacturing industries (limestone and marble).....	2,883	3,586	4,668	4,734	5,172	4,954	5,352	4,735
Other uses <sup>2</sup> .....	1,728	1,767	2,264	2,000	3,023	3,289	3,944	8,356

<sup>1</sup> Quantities of stones not sold by the short ton are expressed in the approximate equivalent in short tons, expressed in their selling units the quantities are as follows for 1927: Building stone, 32,104,000 cubic feet; monumental stone, 4,325,000 cubic feet, paving blocks, 38,706,000; curbing, 4,863,000 cubic feet; and flagging, 738,000 cubic feet

<sup>2</sup> Chiefly agricultural limestone.

Source. Bureau of Mines, Department of Commerce.

**No. 785.—CEMENT PRODUCTION: QUANTITY, BY KINDS, AND TOTAL VALUE**

NOTE.—Portland cement is expressed in barrels of 376 pounds, masonry, natural, and puzzolan cement in 1921 and later years in 376-pound barrels but prior to 1921 in barrels of 240, 265, and 320 pounds, respectively. For 1912 through 1924 the figures for masonry, natural, and puzzolan cements represent shipments.

Year	Production in thousands of barrels			Total value in thousands of dollars	Year	Production in thousands of barrels			Total value in thousands of dollars
	Total	Port-land	Mason-ry, nat-ural, and puz-zolan			Total	Port-land	Mason-ry, nat-ural, and puz-zolan	
1890.....	7,777	336	7,441	4,527	1915.....	86,708	85,915	794	74,285
1895.....	8,731	990	7,741	5,482	1916.....	92,363	91,521	842	101,379
1900.....	17,231	8,482	8,749	13,284	1917.....	93,454	92,814	639	126,106
1904.....	31,675	26,506	5,169	26,032	1918.....	71,515	71,082	433	114,132
1905.....	40,102	35,247	4,855	35,932	1919.....	81,307	80,778	529	138,714
1906.....	51,000	46,463	4,537	55,302	1920.....	100,791	100,023	767	203,198
1907.....	52,230	48,785	3,445	55,904	1921.....	99,381	98,842	539	187,708
1908.....	52,911	51,073	1,838	44,478	1922.....	115,679	114,790	889	203,324
1909.....	66,690	64,991	1,698	53,611	1923.....	138,732	137,460	1,272	263,122
1910.....	77,785	76,550	1,235	68,752	1924.....	150,777	149,358	1,418	272,345
1911.....	79,548	78,529	1,019	66,705	1925.....	163,388	161,659	1,729	281,076
1912.....	83,351	82,438	913	67,462	1926.....	166,635	164,530	2,105	280,785
1913.....	92,949	92,097	852	93,001	1927.....	175,330	173,207	2,124	281,736
1914.....	89,050	88,230	820	82,204	1928.....	178,406	176,196	2,210	278,796

<sup>1</sup> Value of shipments

Source. Bureau of Mines, Department of Commerce

**No. 786.—STONE: PRODUCTION (SALES), BY VARIETIES AND USES**

Variety and use	Quantity sold, thousands of short tons (2,000 pounds) <sup>1</sup>							Value, 1,000 dollars, 1927
	1921	1922	1923	1924	1925	1926	1927	
Total.....	63,539	80,212	103,319	103,184	115,851	124,496	138,345	198,647
Granite.....	4,752	5,913	7,300	6,884	8,074	9,330	10,707	35,287
Basalt and related rocks.....	8,524	10,033	10,674	11,672	11,842	12,978	13,211	17,400
Sandstone.....	2,640	3,388	4,349	3,895	4,499	4,979	5,051	10,923
Marble.....	315	428	563	516	564	563	600	15,626
Limestone.....	45,621	58,929	76,701	75,894	85,649	91,888	99,662	112,440
All other.....	1,085	1,521	3,731	4,324	5,242	4,759	7,115	6,971
Building stone.....	1,369	1,929	2,059	2,212	2,392	2,609	2,485	40,595
Monumental.....	230	243	424	304	363	360	358	14,979
Paving blocks.....	453	326	463	376	381	66	307	3,583
Curbing.....	184	236	252	296	393	346	378	4,940
Flagging.....	65	54	44	60	56	66	55	574
Rubble.....	445	632	882	865	1,197	540	809	998
Riprap.....	1,814	2,049	3,186	3,205	3,079	4,060	4,613	4,717
Crushed stone.....	43,203	49,764	62,323	68,198	75,673	82,516	94,949	97,474
Furnace flux (limestone and marble).....	10,669	18,718	25,602	19,690	22,861	23,859	21,666	15,986
Refractory stone.....	496	902	1,152	1,094	1,261	1,531	1,363	1,711
Manufacturing industries (lime-stone and marble).....	2,883	3,586	4,668	4,734	5,172	4,954	5,352	4,735
Other uses <sup>2</sup> .....	1,728	1,767	2,264	2,000	3,023	3,289	3,944	8,356

<sup>1</sup> Quantities of stones not sold by the short ton are expressed in the approximate equivalent in short tons, expressed in their selling units the quantities are as follows for 1927: Building stone, 32,104,000 cubic feet; monumental stone, 4,325,000 cubic feet, paving blocks, 38,706,000; curbing, 4,863,000 cubic feet; and flagging, 738,000 cubic feet.

<sup>2</sup> Chiefly agricultural limestone.

Source. Bureau of Mines, Department of Commerce.

# No. 788.—PRODUCTION OF PRINCIPAL BURNED-CLAY BUILDING MATERIALS

Year	Brick (millions)			Value (thousands of dollars)							
	Common	Vitrified <sup>1</sup>	Face	Brick			Architectural terra cotta	Hollow building tile	Tile (not drain)	Sewer pipe	Fire brick
				Common	Vitrified <sup>1</sup>	Face					
1913.....	8,089	959	828	50,135	12,138	9,614	7,733	8,620	6,109	14,872	16,811
1914.....	7,147	931	810	43,770	12,501	9,290	6,088	8,385	5,706	14,015	13,476
1915.....	6,851	953	856	42,145	12,231	9,536	4,796	7,801	5,186	11,259	15,800
1916.....	7,394	942	1,003	49,357	12,237	11,465	6,466	9,943	6,475	13,577	24,437
1917.....	5,865	707	758	47,936	10,665	10,391	6,174	13,255	6,821	17,307	42,502
1918.....	3,557	403	356	38,782	7,145	6,095	2,659	13,037	5,082	15,334	51,648
1919.....	4,752	489	791	63,585	11,615	16,033	3,988	17,965	8,137	16,755	38,016
1920.....	4,352	468	787	82,216	12,679	19,441	10,852	27,112	12,470	25,371	53,416
1921.....	4,448	562	873	57,066	12,870	18,128	9,068	14,841	12,560	22,155	24,833
1922.....	5,899	517	1,417	72,613	10,816	28,234	12,410	19,708	16,597	23,600	31,357
1923.....	7,282	699	1,931	94,473	15,570	38,892	16,486	28,275	23,304	29,103	46,677
1924.....	7,159	554	2,030	86,692	12,974	39,931	16,446	24,988	24,842	32,400	40,621
1925.....	7,562	539	2,475	88,551	11,876	45,428	19,139	29,264	27,124	30,421	41,164
1926.....	7,520	468	2,440	88,250	10,285	44,516	19,667	27,818	34,985	29,303	42,707
1927.....	7,061	503	2,413	78,408	10,764	41,521	16,628	26,499	32,766	29,426	38,174

<sup>1</sup>Vitrified brick or block.

Sources. Bureau of the Census and Bureau of Mines, Department of Commerce.

# No. 789.—SALT: PRODUCTION, BY STATES AND KINDS; EXPORTS AND IMPORTS

NOTE.—All quantity figures in short tons (2,000 pounds). Production figures represent sales plus that used by producers, they include Porto Rico

Year	Production	Exports	Imports	Year	Production	Exports	Imports
1880.....	834,548	1,642	509,708	1918.....	7,238,744	136,783	40,290
1885.....	985,411	2,108	440,290	1919.....	6,882,902	119,416	59,514
1890.....	1,242,779	2,464	257,323	1920.....	6,840,029	139,272	137,654
1895.....	1,913,751	3,602	279,576	1921.....	4,981,154	109,563	93,095
1900.....	2,921,708	7,511	199,909	1922.....	6,792,849	134,989	113,922
1905.....	3,635,257	34,238	161,159	1923.....	7,130,713	125,529	88,750
1910.....	4,242,792	49,013	137,103	1924.....	6,803,115	144,945	88,938
1914.....	4,872,656	82,295	130,804	1925.....	7,397,500	155,079	85,788
1915.....	5,352,409	80,474	122,326	1926.....	7,371,600	158,908	55,964
1916.....	6,362,906	84,065	122,079	1927.....	7,568,690	153,832	44,908
1917.....	6,978,177	113,993	64,922	1928.....	8,074,700	145,396	42,856

State or kind	1900	1910	1915	1920	1925	1927	1928
Production, total.....	2,921,708	4,242,792	5,352,409	6,840,029	7,397,500	7,568,690	8,074,700
By States							
Michigan.....	1,009,487	1,323,283	1,762,430	2,262,915	2,172,600	2,271,460	2,405,240
New York.....	1,105,590	1,629,953	1,570,446	1,903,101	2,053,970	1,964,080	2,085,230
Ohio.....	199,540	514,339	823,234	1,057,802	1,173,590	1,203,170	1,308,110
Kansas.....	312,743	393,603	527,123	783,655	812,540	794,780	821,950
Louisiana.....	(?)	(?)	(?)	205,085	500,350	606,110	632,780
California.....	87,060	131,252	146,784	212,008	292,480	300,880	383,730
Texas.....	(?)	53,503	62,297	91,103	(?)	54,270	(?)
Utah.....	34,878	34,979	55,279	75,259	88,150	74,690	85,900
West Virginia.....	34,142	21,788	32,513	29,802	25,070	22,600	18,700
Porto Rico.....	(?)	(?)	(?)	(?)	15,860	15,150	(?)
Undistributed.....	138,268	140,093	372,303	159,299	265,890	261,500	335,160
By kinds							
Manufactured (evaporated).....	1,725,394	1,953,069	2,335,823	2,409,924	2,235,170	2,263,030	2,430,050
In brine.....	779,949	1,314,492	1,851,199	2,819,916	2,819,690	3,161,800	3,426,870
Rock salt.....	416,365	975,231	1,165,387	1,610,189	2,342,640	2,143,860	2,217,780
Total value (dollars).....	8,944,603	7,900,344	11,747,686	29,894,075	26,162,861	24,817,962	26,772,568

<sup>1</sup> Louisiana is included with New York.<sup>2</sup> Included in "Undistributed."

Source. Bureau of Mines, Department of Commerce.

**No. 790.—ACCIDENT RATES IN ALL BRANCHES OF THE MINERAL INDUSTRY, 1920-1927, AND IN THE SEVERAL BRANCHES, 1927**

Branch of mineral industry	Average days active	Men employed		Man shifts	Number killed	Number injured	Number killed or injured per thousand 300-day workers	
		Actual number	Equivalent in 300-day workers				Killed	Injured
1920.....	249	1,095,063	908,419	272,525,550	2,984	56,057	3 3	1 182 5
1921.....	188	1,044,001	653,414	196,024,209	2,381	35,416	3 6	1 198.0
1922.....	174	1,092,863	635,299	190,589,710	2,529	46,307	4 0	1 201.1
1923.....	222	1,153,894	852,145	255,643,525	3,071	59,570	3 6	1 203.9
1924.....	220	1,073,630	787,065	236,119,757	3,031	57,766	3 9	1 201.1
1925.....	222	1,049,579	777,896	233,368,875	2,826	58,704	3 6	1 197.2
1926.....	242	1,058,843	855,632	256,689,813	3,201	52,752	3 7	1 178.1
1927.....	225	1,044,537	782,635	234,790,200	2,797	45,618	3 6	1 163.2
1928.....	231	951,449	733,728	220,118,341	2,629	38,717	3 6	1 146.1
<b>1927</b>								
Coal mines.....	199	759,177	503,065	150,919,350	2,231	(3)	4 4	—
Other nonmetallic mines.....	282	12,629	11,863	3,569,015	26	2,031	2 2	171.2
<b>Metal mines.....</b>	<b>285</b>	<b>107,070</b>	<b>101,584</b>	<b>30,474,948</b>	<b>326</b>	<b>23,102</b>	<b>3.2</b>	<b>227.4</b>
Copper mines.....	313	30,724	32,084	9,625,317	111	8,379	3.5	261.2
Gold, silver, and miscellaneous metal mines.....	287	30,461	29,174	8,752,024	114	8,162	3 9	279.8
Iron mines.....	267	33,386	29,737	8,921,001	73	3,409	2.5	114.6
Lead and zinc mines (Mississippi Valley).....	254	12,499	10,589	3,176,606	28	3,152	2.6	297.7
<b>Quarries.....</b>	<b>271</b>	<b>91,517</b>	<b>82,609</b>	<b>24,782,561</b>	<b>135</b>	<b>13,459</b>	<b>1.6</b>	<b>162.9</b>
Quarries (excluding outside works).....	251	49,549	41,421	12,426,312	99	8,015	2 4	193.5
Quarries (outside works only).....	294	41,968	41,188	12,356,249	36	5,444	.9	132.2
Cement rock quarries.....	313	23,220	24,237	7,271,158	13	1,676	.5	69.2
Granite quarries.....	247	11,034	9,073	2,721,721	23	1,977	2 5	217.9
Limestone quarries.....	258	39,269	33,765	10,129,463	73	7,069	2 2	209.4
Marble quarries.....	288	6,153	5,912	1,773,424	5	738	.9	124.8
Sandstone and bluestone quarries.....	240	4,150	3,321	996,429	5	631	1 5	190.0
Slate quarries.....	257	3,736	3,196	958,760	7	589	2 2	184.3
Trap-rock quarries.....	296	3,955	3,105	931,606	9	779	2 9	250.9
<b>Metallurgical plants.....</b>	<b>338</b>	<b>53,477</b>	<b>60,291</b>	<b>18,087,381</b>	<b>54</b>	<b>5,741</b>	<b>.9</b>	<b>95.2</b>
Ore-dressing plants.....	306	15,328	15,643	4,692,967	17	1,801	1.1	115.1
Smelters.....	353	22,696	26,693	8,007,990	22	2,287	.8	85.7
Auxiliary works.....	349	15,453	17,955	5,386,424	15	1,653	.8	92.1
<b>Coke ovens.....</b>	<b>337</b>	<b>20,667</b>	<b>23,223</b>	<b>6,367,035</b>	<b>25</b>	<b>1,285</b>	<b>1.1</b>	<b>55.3</b>
Beehive coke ovens.....	232	3,976	3,071	921,253	2	287	.7	93.5
By-products coke ovens.....	362	16,691	20,152	6,045,782	23	998	1.1	49.5

<sup>1</sup> Exclusive of coal<sup>2</sup> Not available

Source. Bureau of mines, Department of Commerce

**No. 791.—FATAL ACCIDENTS IN MINERAL INDUSTRIES: BY CAUSES**

Class of plants and cause	1921	1922	1923	1924	1925	1926	1927	1928
<b>Coal mines.....</b>	<b>1,995</b>	<b>1,984</b>	<b>2,462</b>	<b>2,402</b>	<b>2,234</b>	<b>2,518</b>	<b>2,231</b>	<b>2,176</b>
Falls of roof (coal, rock, etc.).....	925	788	1,058	941	977	1,093	1,015	918
Falls of face or pillar coal.....	100	120	109	121	103	121	134	150
Mine cars and locomotives.....	366	373	449	404	385	463	386	385
Explosions of gas or coal dust.....	126	311	372	536	345	422	247	376
Explosives <sup>1</sup> .....	142	93	115	99	102	96	110	74
Electricity (shock or burns).....	97	83	83	96	100	112	114	93
Mining machines and machinery.....	34	41	49	38	44	35	38	39
Mine fires (burned, suffocated, etc.).....	16	—	—	2	10	1	4	1
Shaft fatalities.....	36	41	46	29	34	35	29	25
Railway cars and locomotives.....	20	22	24	20	16	20	15	17
Other causes.....	133	112	157	116	118	120	139	98

<sup>1</sup> Includes premature blasts, explosion of misfires, suffocation by gas from explosives, flying pieces from blasts, etc.



## No. 791.—FATAL ACCIDENTS IN MINERAL INDUSTRIES: BY CAUSES—Contd.

Class of plants and cause	1921	1922	1923	1924	1925	1926	1927	1928
<b>Metal mines<sup>2</sup></b> .....	<b>239</b>	<b>344</b>	<b>367</b>	<b>418</b>	<b>371</b>	<b>430</b>	<b>352</b>	<b>273</b>
Falls or slides of rock or ore.....	72	105	111	131	116	126	103	88
Rock or ore (underground loading).....	2	3	2	8	4	6	8	8
Explosives.....	23	30	42	52	52	49	37	21
Haulage.....	21	37	62	58	56	39	41	32
Falls of persons.....	40	48	50	44	45	49	53	34
Run or fall of ore (chute, pocket, or bins).....	6	7	6	4	8	9	6	7
Machinery, other than locomotives.....	6	11	11	9	7	5	14	8
Electricity.....	4	7	12	13	20	21	10	10
Mine fires and suffocation from natural gases.....	5	48	7	7	7	5	17	4
Shaft fatalities, other than falls of persons.....	24	28	31	16	24	26	31	31
Other causes.....	26	20	33	76	32	95	34	30
<b>Quarries</b> .....	<b>120</b>	<b>132</b>	<b>143</b>	<b>138</b>	<b>149</b>	<b>154</b>	<b>135</b>	<b>119</b>
Falls or slides of rock or overburden.....	20	25	31	26	34	32	38	29
Explosives.....	17	36	12	16	20	23	18	9
Haulage.....	17	15	28	23	22	23	19	16
Falls of persons.....	11	7	16	16	15	9	12	19
Machinery.....	18	24	21	20	26	20	19	19
Drilling and channeling.....	1	1	1	1	1	1	1	2
Other causes.....	36	24	35	36	31	47	28	25
Smelting plants.....	14	16	17	16	19	20	22	18
Ore-dressing plants.....	4	12	24	20	17	13	17	15
Coke ovens.....	17	29	45	24	28	51	25	17

<sup>2</sup> Includes mines producing nonmetallic minerals other than coal

Source Bureau of Mines, Department of Commerce

## No. 792.—ACCIDENTS IN MINERAL INDUSTRIES: BY GROUPS OF INDUSTRIES

NOTE.—Figures for metal mines include mines producing nonmetallic minerals other than coal

Year	Number employed		Killed	Injured		Year	Number employed		Killed	Injured	
	Actual number	Equivalent in 300-day workers		Temporary	Permanent		Actual number	Equivalent in 300-day workers		Temporary	Permanent
<b>Metal mines:</b>						<b>Metallurgical Plants—Con</b>					
1915.....	152, 118	141, 997	553	34, 686	609	1925.....	58, 935	66, 220	44	7, 480	231
1919.....	145, 262	134, 871	468	31, 178	328	1926.....	57, 726	65, 687	48	7, 052	227
1920.....	136, 583	134, 540	425	32, 205	357	1927.....	53, 477	60, 291	54	5, 533	203
1921.....	93, 929	74, 510	230	18, 424	180	1928.....	45, 695	52, 668	44	4, 473	181
1922.....	105, 697	97, 138	344	25, 840	240	<b>Coke ovens.</b>					
1923.....	123, 279	121, 866	367	33, 129	434	1916.....	31, 603	34, 119	45	5, 154	83
1924.....	123, 128	119, 113	418	32, 706	412	1919.....	28, 741	27, 674	53	3, 908	123
1925.....	126, 713	123, 908	371	34, 458	674	1920.....	28, 139	29, 921	49	3, 336	79
1926.....	127, 823	123, 870	430	29, 773	577	1921.....	16, 204	13, 868	17	1, 829	24
1927.....	119, 699	113, 447	352	24, 605	528	1922.....	19, 278	18, 236	29	1, 674	30
1928.....	113, 866	109, 345	273	21, 914	569	1923.....	23, 729	25, 627	45	2, 517	76
<b>Quarries:</b>						1924.....	20, 451	20, 681	24	1, 607	38
1915.....	100, 740	82, 447	148	9, 148	523	1925.....	23, 254	24, 054	28	1, 652	44
1919.....	75, 605	63, 794	123	8, 951	248	1926.....	23, 115	24, 288	51	1, 874	48
1920.....	86, 488	77, 089	178	10, 880	337	1927.....	20, 667	23, 223	25	1, 232	53
1921.....	77, 185	59, 958	120	10, 126	339	1928.....	19, 390	21, 710	17	979	33
1922.....	79, 081	68, 861	132	11, 442	397	<b>Coal mines<sup>1</sup></b>					
1923.....	92, 455	85, 153	143	14, 547	443	1911.....	728, 348	534, 122	2, 656	( )	( )
1924.....	94, 242	84, 426	138	14, 307	470	1915.....	734, 008	511, 598	2, 269	( )	( )
1925.....	91, 872	83, 487	149	13, 713	452	1916.....	720, 971	565, 766	2, 226	( )	( )
1926.....	91, 146	82, 361	154	12, 770	431	1919.....	776, 569	542, 217	2, 323	( )	( )
1927.....	91, 517	82, 609	135	13, 094	365	1920.....	784, 621	601, 283	2, 272	( )	( )
1928.....	89, 667	81, 325	119	10, 207	361	1921.....	823, 253	474, 529	1, 965	( )	( )
<b>Metallurgical plants.</b>						1922.....	844, 807	405, 056	1, 984	( )	( )
1916.....	80, 201	88, 596	83	14, 863	217	1923.....	862, 536	560, 000	2, 462	( )	( )
1919.....	61, 120	64, 358	64	8, 053	73	1924.....	779, 613	499, 896	2, 402	( )	( )
1920.....	59, 232	65, 587	61	8, 714	149	1925.....	748, 805	480, 227	2, 234	( )	( )
1921.....	39, 430	30, 549	27	4, 456	38	1926.....	759, 033	559, 426	2, 518	( )	( )
1922.....	44, 000	46, 008	45	6, 600	78	1927.....	759, 177	503, 065	2, 231	( )	( )
1923.....	53, 871	59, 499	58	8, 260	164	1928.....	682, 331	468, 680	2, 176	( )	( )
1924.....	56, 196	62, 948	55	8, 132	94						

<sup>1</sup> Not available

Source Bureau of Mines, Department of Commerce

## 32.—MANUFACTURES

[Data in this section relate to continental United States. For additional statistics regarding food manufacturing industries and mineral manufacturing industries see sections on Farm Animals and Animal Products, Farm Crops and Foodstuffs, and Mining and Mineral Products].

GENERAL NOTE.—Prior to 1899 census statistics of manufactures were collected decennially and from then to 1919 every five years. Beginning with 1921 data are being collected every two years. For the census of 1899 and previous censuses data were collected for both factories and hand and neighborhood industries. For the census years 1904 to 1919, inclusive, factories having products valued at \$500 or more were included, but the statistics beginning 1921 (except as to certain major items shown for that year in Table 794 only), relate only to establishments having products valued at \$5,000 or more. However, in 1921, establishments having products valued at \$500 or more but less than \$5,000, while constituting 21 per cent of the total number of establishments, employed only six-tenths of 1 per cent of the total number of wage earners, and had an output of only three-tenths of 1 per cent of the total value of the product.

The statistics for automobile repairing, collected for 1914 and 1919, have been excluded from Tables 793 and 795 to 797. Other adjustments in previously published figures in the third section of Table 793 and in Tables 795 to 797 have been made as follows: (1) Data for "Coffee and spice, roasting and grinding," have been added, except for 1925, for which year such data were not tabulated; (2) data for "Poultry killing and dressing" have been deducted, as no data were collected for this industry for 1927. Also in Table 793 the figures for salaried employees and salaries for 1923 and 1925 have been adjusted by deducting the number of salaried employees and salaries for central administrative office employees. Data in regard to salaried employees of central administrative offices were not collected for 1927. These data for 1914, 1919, and 1921 are not available, and therefore no change was made for these years.

Figures for wages, cost of materials, and value of products are greatly affected by changes in the buying power of money or, in other words, by the general levels of prices and wages. Figures of total cost of materials and total value of products for many individual industries, for all groups of industries, and especially for all industries combined, involve much duplication. This is due to the use of products of a given establishment as material for another in the same or a different industry.

**No. 793.—MANUFACTURES: SUMMARY, 1849 TO 1927**

	Number of establishments	Salaried officers and employees	Wage earners (average for the year)	Horse-power	Salaries	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture
	In thousands				In millions of dollars				
<b>Factories and hand and neighborhood industries:</b>									
1849-----	123	( <sup>1</sup> )	957	( <sup>2</sup> )	( <sup>1</sup> )	237	555	1,019	464
1859-----	140	( <sup>1</sup> )	1,311	( <sup>2</sup> )	( <sup>1</sup> )	379	1,082	1,886	854
1869-----	252	( <sup>1</sup> )	2,054	2,846	( <sup>1</sup> )	620	1,991	3,386	1,895
1879-----	254	( <sup>1</sup> )	2,733	3,411	( <sup>1</sup> )	948	3,397	5,370	1,973
1889-----	355	( <sup>1</sup> )	4,252	5,639	( <sup>1</sup> )	1,891	5,162	9,372	4,210
1899-----	512	( <sup>1</sup> )	5,306	10,098	( <sup>1</sup> )	2,321	7,344	13,000	5,656
<b>Factories, excluding hand and neighborhood industries and establishments with products valued at less than \$500</b>									
1899-----	208	364	4,713	( <sup>3</sup> )	381	2,008	6,576	11,407	4,831
1904-----	216	520	5,468	13,488	574	2,610	8,500	14,794	6,294
1909-----	268	790	6,615	18,675	939	3,427	12,143	20,672	8,529
1914-----	273	963	7,024	22,421	1,274	4,068	14,359	24,217	9,858
<b>Factories, excluding establishments with products valued at less than \$5,000</b>									
1914-----	177	962	6,895	22,289	1,274	4,067	14,267	23,975	9,708
1919-----	214	1,438	8,998	29,324	2,880	10,460	37,197	62,000	24,803
1921-----	196	1,146	6,944	( <sup>2</sup> )	2,562	8,200	25,292	43,619	18,327
1923-----	196	1,269	8,777	33,092	2,806	11,008	34,684	60,530	25,846
1925-----	187	1,255	8,382	35,767	2,921	10,727	35,897	62,668	26,771
1927-----	192	1,301	8,350	38,826	3,230	10,849	35,133	62,718	27,685

<sup>1</sup> No comparable data.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> Data approximately the same as given for factories and hand and neighborhood industries, as the amount of horsepower used in the latter is small.

<sup>4</sup> Includes data for "Poultry killing and dressing" industry.

<sup>5</sup> Includes data for all establishments reporting products valued at \$500 or more. These items were not tabulated separately for establishments reporting products valued between \$500 and \$5,000.

Source: Bureau of the Census, Department of Commerce.

785

# No. 794.—MANUFACTURES: ESTABLISHMENTS, CLASSIFIED BY VALUE OF PRODUCTS <sup>1</sup>

NOTE.—Data for the "Coffee and spice, roasting and grinding" industry omitted for 1925 but included for other years. See general note, p 785. Data by size of establishments were not compiled in 1927

Class of establishments according to value of products	Establishments		Wage earners		Value of products	
	Number	Per cent distribution	Average number	Per cent distribution	Amount	Per cent distribution
<b>Less than \$5,000:</b>						
1925-----	( <sup>2</sup> )	-----	( <sup>2</sup> )	-----	( <sup>2</sup> )	-----
1923-----	( <sup>2</sup> )	-----	( <sup>2</sup> )	-----	( <sup>2</sup> )	-----
1921-----	<sup>3</sup> 53,999	-----	<sup>3</sup> 40,924	0.6	<sup>3</sup> 136,926,075	0.3
1919-----	65,485	-----	45,813	.5	167,085,044	.3
1914-----	97,060	-----	129,623	1.8	233,381,081	1.0
<b>\$5,000 and over.</b>						
1925-----	187,390	100 0	8,394,261	100 0	62,713,713,730	100 0
1923-----	196,309	100.0	8,778,156	100 0	60,555,998,200	100 0
1921-----	196,267	100 0	6,946,570	99 4	43,653,282,833	99.7
1919-----	224,620	100.0	9,050,559	99 5	62,250,993,729	99.7
1914-----	178,731	100 0	6,906,624	98 2	24,013,053,643	99.0
<b>\$5,000 to \$20,000<sup>4</sup></b>						
1925-----	55,876	29 8	156,373	1 9	628,373,403	1.0
1923-----	61,981	31 6	189,738	2 2	697,996,736	1.1
1921-----	71,075	36 2	224,852	3 2	782,977,433	1 8
1919-----	87,440	38 9	249,722	2 7	945,602,857	1.5
1914-----	87,931	49 2	429,037	6.1	905,693,168	3.7
<b>\$20,000 to \$100,000:</b>						
1925-----	68,951	36 8	660,309	7 9	3,272,196,872	5 2
1923-----	72,370	36 9	718,746	8 2	3,426,433,520	5 7
1921-----	72,251	36 8	746,024	10 7	3,330,350,409	7 6
1919-----	77,911	34.7	793,528	8.7	3,571,283,301	5 7
1914-----	56,814	31.8	999,510	14.2	2,550,229,411	10.5
<b>\$100,000 to \$500,000.</b>						
1925-----	42,209	22 5	1,675,911	20 0	9,576,090,022	15.3
1923-----	42,075	21 4	1,721,266	19 6	9,496,592,898	15.7
1921-----	38,027	19 4	1,629,573	23 3	8,405,758,540	19.2
1919-----	39,647	17.7	1,719,982	18 9	8,965,872,131	14.4
1914-----	25,847	14.5	<sup>4</sup> 3,002,071	<sup>4</sup> 42 7	5,742,376,392	23.7
<b>\$500,000 to \$1,000,000:</b>						
1925-----	9,771	5 2	1,131,439	13 5	6,870,112,293	11 0
1923-----	9,556	4 9	1,134,897	12 9	6,752,818,172	11.1
1921-----	7,581	3 9	966,559	13.8	5,296,720,583	12.1
1919-----	9,208	4.1	1,114,615	12.3	6,467,131,823	10 4
1914-----	4,320	2.4	( <sup>4</sup> )	( <sup>4</sup> )	3,020,693,743	12.5
<b>\$1,000,000 and over</b>						
1925-----	10,583	5.6	4,760,229	56 8	42,366,941,140	67 6
1923-----	10,327	5.2	5,013,509	57 1	40,182,156,874	66.4
1921-----	7,333	3 7	3,379,562	43 4	25,837,475,868	59 0
1919-----	10,414	4 6	5,172,712	56 9	42,301,103,617	67 8
1914-----	3,819	2 1	2,476,006	35 2	11,794,060,929	48 6

<sup>1</sup> To make the percentages for the numbers of establishments comparable, those for all 5 years have been based on the numbers of establishments reporting products valued at \$5,000 or more. The percentages for wage earners and value of products, however, have not been similarly adjusted, the comparability of these percentages having been affected very slightly by the omission of small establishments in 1923 and 1925.

<sup>2</sup> No data for establishments with products under \$5,000 in value have been tabulated for 1923 and 1925.

<sup>3</sup> The data for the 53,999 establishments in the "Less than \$5,000" class are not included in other tables

<sup>4</sup> Data for \$500,000 to \$1,000,000 class and \$100,000 to \$500,000 class combined

Source. Bureau of the Census, Department of Commerce.

# No. 795.—MANUFACTURES: PRIME MOTORS, MOTORS, AND GENERATORS, BY NUMBER AND RATED CAPACITY

NOTE.—"Total rated capacity" includes rented electric power, but not other rented power. No data for prime movers were collected for 1921. As to comparability of figures and adjustments in previously published figures, see general note, p. 785

Year, division, and industry group	Estab-lish-ments reporting power equip-ment	Prime movers						Electric motors driven by current chassed current		Electric motors driven by current generated in establishments reporting		Electric generators	
		Total rated capacity (horse-power)		Steam engines and turbines		Internal-combustion engines		Water wheels and water turbines <sup>1</sup>		Electric motors driven by current chassed current		Electric motors driven by current generated in establishments reporting	
		Num-ber	Horse-power	Num-ber	Horse-power	Num-ber	Horse-power	Num-ber	Horse-power	Num-ber	Horse-power	Num-ber	Kilo-watts
United States.													
1927	174, 118	38, 825, 681	73, 382	10, 628, 931	12, 064	1, 170, 774	7, 594	1, 598, 666	2, 151, 675	19, 132, 310	790, 810	11, 205, 979	19, 028, 7, 845, 085
New England.	55, 539	10, 985, 754	18, 383	5, 009, 700	2, 863	335, 039	1, 753	290, 722	646, 309	5, 343, 293	201, 959	3, 404, 518	5, 561, 1, 968, 578
Middle Atlantic.	39, 631	11, 035, 846	17, 208	4, 941, 504	2, 639	395, 407	1, 083	228, 294	617, 071	5, 493, 731	244, 560	3, 975, 818	5, 293, 2, 442, 419
East North Central.	15, 015	2, 083, 074	4, 867	780, 601	1, 119	74, 879	234	88, 570	126, 514	1, 093, 934	37, 838	492, 978	1, 191, 365, 488
West North Central.	15, 462	3, 805, 088	9, 888	1, 554, 492	1, 043	160, 606	1, 184	153, 987	207, 368	1, 895, 953	55, 864	857, 516	1, 534, 670, 652
South Atlantic.	7, 219	1, 787, 386	5, 508	896, 232	1, 257	39, 349	172	10, 427	88, 466	841, 278	16, 694	258, 535	722, 292, 191
East South Central.	7, 672	1, 419, 558	5, 254	795, 029	1, 196	92, 071	110	4, 510	32, 369	824, 348	14, 188	330, 708	964, 227, 388
West South Central.	3, 573	829, 256	1, 742	424, 312	1, 323	15, 456	84	6, 080	27, 504	383, 408	8, 504	210, 292	440, 141, 847
Mountain.	13, 741	2, 359, 614	4, 102	729, 965	681	32, 494	196	71, 208	140, 747	1, 626, 217	23, 191	418, 758	584, 289, 390
Pacific.	46, 554	4, 134, 973	14, 367	1, 489, 755	3, 959	185, 969	1, 851	104, 373	277, 779	2, 354, 875	65, 441	682, 279	3, 062, 474, 371
Food and kindred products.	24, 873	4, 173, 438	4, 480	1, 766, 153	2, 611	15, 056	2, 148	427, 563	415, 648	1, 934, 066	149, 844	1, 055, 750	2, 720, 1, 005, 723
Textiles and their products.	18, 930	3, 321, 755	17, 178	2, 178, 095	2, 363	56, 628	561	36, 944	127, 259	1, 049, 457	66, 931	829, 405	2, 290, 611, 817
Lumber and allied products.	2, 935	2, 814, 795	3, 624	1, 08, 639	3, 051	7, 075	1, 995	901, 483	55, 392	797, 601	42, 365	990, 050	1, 466, 716, 230
Paper and allied products.	22, 076	5, 085, 427	2, 207	30, 452	438	4, 322	4	180	223, 870	634, 473	8, 299	31, 783	215, 25, 043
Printing, publishing, and allied industries.	6, 276	1, 851, 490	4, 636	849, 399	517	30, 882	88	29, 722	77, 446	941, 787	40, 001	429, 234	1, 241, 380, 681
Chemicals and allied products.	1, 259	1, 516, 133	9, 262	1, 007, 755	575	67, 988	2	2, 216	18, 338	434, 194	13, 554	502, 159	1, 383, 288, 732
Products of petroleum and coal.	1, 495	790, 622	3, 988	269, 152	92	4, 243	39	3, 912	27, 007	517, 718	13, 888	134, 103	152, 165, 618
Rubber products.	3, 996	419, 591	1, 126	208, 939	702	4, 243	39	3, 912	27, 007	517, 718	13, 888	134, 103	152, 165, 618
Leather and its manufactures.	2, 996	419, 591	1, 126	208, 939	702	4, 243	39	3, 912	27, 007	517, 718	13, 888	134, 103	152, 165, 618
Stone, clay, and glass products.	3, 996	419, 591	1, 126	208, 939	702	4, 243	39	3, 912	27, 007	517, 718	13, 888	134, 103	152, 165, 618
Iron, steel, and products, excl. machinery.	6, 189	8, 323, 037	6, 280	4, 618, 552	1, 592	101, 450	148	29, 637	76, 313	1, 623, 099	27, 846	730, 171	1, 224, 523, 481
Nonferrous metals and their products.	5, 254	1, 219, 598	852	428, 298	189	7, 531	68	7, 549	66, 908	781, 250	20, 719	3, 905, 699	1, 776, 1, 088, 703
Machinery, excl. transportation equipment.	11, 788	3, 006, 265	2, 392	747, 475	322	59, 250	346	20, 354	270, 484	2, 146, 186	112, 038	865, 413	1, 510, 502, 631
Transportation equipment—air, land, water.	2, 484	2, 027, 686	1, 410	550, 638	322	16, 901	25	9, 297	152, 365	4, 460, 450	38, 550	973, 444	431, 602, 847
Railroad repair shops.	2, 016	1, 110, 821	2, 067	429, 091	145	18, 455	4	482	44, 314	674, 723	18, 044	264, 280	729, 172, 310
Miscellaneous.	11, 158	849, 919	1, 065	247, 624	456	7, 419	115	7, 419	103, 068	566, 422	24, 290	157, 616	545, 111, 485

<sup>1</sup> Data for a small number of water motors included for 1919, but not for 1923, 1925, or 1927

<sup>2</sup> Includes data for establishments with products valued at less than \$5,000. Statistics for 1923, 1925, and 1927 refer only to establishments with products valued at \$5,000 or more.

Source. Bureau of the Census, Department of Commerce.

## No. 796.—SUMMARY BY 16 GENERAL GROUPS OF INDUSTRIES

NOTE.—See general note, p. 785. Due to a change in the classification of a number of the industries the figures for the majority of the groups differ from those previously published. The figures for 1899 are estimated in part, but are believed to be fairly comparable with those for later years.

Industry	Cen- sus year	Num- ber of estab- lish- ments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufac- ture	Horse- power
All industries....	1927	191,866	8,349,755	10,848,803	35,133,137	62,718,347	27,585,210	38,825,681
	1925	187,224	8,381,511	10,727,338	35,896,886	62,668,280	26,771,373	35,766,944
	1923	196,098	8,776,646	11,007,851	34,683,915	60,529,574	25,845,659	33,092,222
	1921	196,098	6,944,815	8,200,359	25,291,734	43,618,566	18,326,832	(1)
	1919	274,402	9,039,171	10,459,743	37,252,715	62,151,721	24,899,005	29,323,653
	1914	272,402	7,022,332	4,067,096	14,347,730	24,203,598	9,855,868	22,288,970
	1899	207,514	4,712,763	(2)	6,575,851	11,406,927	4,831,076	(2)
1. Food and kindred products.	1927	49,787	679,520	823,388	8,113,433	11,015,860	2,902,427	4,134,973
	1925	47,946	662,010	791,049	7,709,917	10,373,082	2,663,166	3,876,268
	1923	51,720	680,627	794,125	6,969,064	9,497,627	2,528,563	3,721,019
	1921	51,944	624,363	744,301	6,093,612	8,232,413	2,138,801	(1)
	1919	69,227	731,524	772,679	10,216,615	12,706,643	2,490,023	3,199,090
	1914	67,287	535,083	302,719	3,895,981	4,964,844	1,068,863	2,501,702
	1899	46,590	321,016	(2)	1,782,767	2,228,346	445,579	(2)
2. Textiles and their products.	1927	26,843	1,694,416	1,759,958	4,922,716	8,950,473	4,027,757	4,173,438
	1925	24,450	1,628,283	1,654,814	5,349,925	9,126,155	3,776,230	3,986,522
	1923	26,763	1,715,293	1,743,798	5,394,441	9,462,282	4,067,841	3,783,401
	1921	25,955	1,509,738	1,472,352	3,801,090	6,956,465	3,155,375	(1)
	1919	28,451	1,610,003	1,481,143	5,379,388	9,210,933	3,831,545	3,248,364
	1914	28,350	1,605,912	675,782	2,013,738	3,444,810	1,431,073	2,717,078
	1899	6,663	1,022,123	(2)	894,846	1,628,606	733,760	(2)
3. Lumber and allied products.	1927	20,163	862,667	929,790	1,633,938	3,457,427	1,823,489	3,321,755
	1925	21,928	921,266	978,472	1,725,851	3,689,127	1,963,776	3,472,970
	1923	21,678	931,816	962,595	1,660,395	3,633,896	1,966,991	3,330,236
	1921	21,398	703,380	670,462	1,197,628	2,456,357	1,259,229	(1)
	1919	41,201	864,001	859,872	1,368,341	3,118,480	1,745,119	3,409,746
	1914	43,466	865,294	446,897	765,936	1,616,453	850,517	3,176,436
	1899	36,050	671,696	(2)	480,930	1,007,632	526,602	(2)
4. Paper and paper products. <sup>1</sup>	1927	2,989	225,506	273,571	1,084,932	1,799,780	714,848	2,814,795
	1925	2,743	222,745	264,692	921,659	1,560,480	638,821	2,575,520
	1923	2,704	219,955	251,242	879,938	1,466,229	586,291	2,314,533
	1921	2,618	185,572	203,547	670,408	1,082,331	411,923	(1)
	1919	2,696	208,518	213,099	721,225	1,251,974	530,748	1,967,514
	1914	2,477	167,825	89,422	315,459	522,716	207,257	1,697,624
5. Printing, publishing, and allied industries.	1927	25,416	327,534	584,766	752,469	2,846,078	2,093,609	568,427
	1925	23,810	314,021	540,824	692,576	2,583,205	1,890,629	485,274
	1923	23,065	307,064	491,808	664,481	2,306,059	1,641,579	428,996
	1921	22,759	281,684	433,883	661,963	2,068,233	1,406,271	(1)
	1919	33,728	301,531	351,623	586,977	1,762,859	1,175,882	879,168
	1914	34,732	285,181	207,144	265,809	934,099	668,291	341,449
	1899 <sup>1</sup>	26,661	298,744	(2)	214,566	607,907	393,341	(2)
6. Chemicals and allied products. <sup>1</sup>	1927	7,586	254,004	318,707	1,809,399	3,363,548	1,554,149	1,851,490
	1925	7,335	245,419	297,346	1,837,388	3,224,470	1,387,082	1,752,348
	1923	7,249	247,130	289,663	1,710,204	2,946,146	1,235,942	1,657,200
	1921	7,398	200,016	224,867	1,368,214	2,234,830	876,616	(1)
	1919	10,785	329,525	365,454	2,274,146	3,812,622	1,538,476	1,722,699
	1914	11,538	258,889	164,703	1,013,892	1,969,549	955,657	1,461,958
	1899 <sup>1</sup>	14,667	306,235	(2)	627,220	1,319,447	692,227	(2)
7. Products of petroleum and coal. <sup>1</sup>	1927	1,373	141,087	216,686	2,256,384	3,048,570	792,185	1,510,133
	1925	1,529	135,759	209,214	2,349,787	3,216,769	866,982	1,238,010
	1923	1,598	137,727	212,053	1,974,111	2,766,304	792,194	1,089,942
	1921	1,510	114,586	179,918	1,755,495	2,363,127	607,632	(1)
	1919	1,631	131,287	185,029	1,631,112	2,280,301	649,189	707,419
	1914	1,705	90,406	60,600	471,791	716,737	244,946	462,064

<sup>1</sup> Not called for on schedule.

<sup>2</sup> Data not compiled for 199 by groups.

<sup>3</sup> Data for 1899 included with group 5.

<sup>4</sup> Includes data for group 4.

<sup>5</sup> The fact that the increase in the "Chemicals and allied products" group is less than in most others is due to the decline in the production of alcoholic liquors which are included. For figures excluding alcoholic liquors see p. 798.

<sup>6</sup> Includes data for group 7.

<sup>7</sup> Data for 1899 included with group 6.

## No. 796.—SUMMARY BY 16 GENERAL GROUPS OF INDUSTRIES—Continued

Industry	Cen- sus year	Num- ber of estab- lish- ments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufac- ture	Horse- power
8 Rubber products---	1927	516	141,997	198,074	660,370	1,225,077	564,707	790,622
	1925	530	141,869	191,286	721,730	1,260,805	539,075	659,691
	1923	529	137,868	182,084	501,163	958,518	457,355	605,634
	1921	496	103,273	123,613	377,879	704,903	327,024	(1)
	1919	477	158,549	193,763	594,344	1,138,216	543,872	429,273
	1914	342	74,022	44,167	163,035	300,994	137,959	199,242
	1899	303	36,567	(2)	60,245	99,886	39,641	(2)
9. Leather and its manufactures.	1927	4,265	315,991	364,447	1,088,641	1,869,305	780,664	419,591
	1925	4,243	314,025	355,346	1,012,881	1,763,709	750,829	413,173
	1923	4,868	344,545	388,630	1,083,345	1,880,086	796,740	412,998
	1921	4,813	280,071	314,412	934,398	1,544,185	609,788	(1)
	1919	6,397	349,362	363,453	1,713,807	2,610,231	896,423	332,537
	1914	6,758	307,060	169,358	753,135	1,104,595	351,459	311,194
	1899	6,410	248,626	(2)	396,633	582,048	185,415	(2)
10. Stone, clay, and glass products.	1927	8,673	350,017	464,273	594,774	1,612,549	1,017,774	2,709,131
	1925	8,478	353,036	467,012	603,427	1,640,652	1,037,225	2,348,157
	1923	8,317	351,692	453,567	573,472	1,563,121	989,648	1,936,054
	1921	8,347	252,990	307,065	428,259	1,033,091	604,832	(1)
	1919	12,599	302,810	332,726	422,611	1,111,746	689,135	1,584,917
	1914	14,790	335,824	206,085	240,818	618,700	377,882	1,493,976
	1899	11,535	231,716	(2)	85,137	270,650	185,513	(2)
11. Iron and steel and their products, not including machinery	1927	6,346	835,501	1,264,406	3,544,908	6,199,252	2,654,345	8,323,037
	1925	6,068	851,270	1,284,339	3,734,350	6,461,668	2,727,318	7,518,999
	1923	6,358	892,660	1,324,587	4,152,918	6,828,841	2,675,923	7,259,275
	1921	6,255	571,798	731,184	2,140,345	3,456,387	1,316,043	(1)
	1919	7,621	858,571	1,244,406	3,423,678	5,889,523	2,465,845	6,430,002
	1914	6,331	618,349	421,989	1,315,808	2,137,627	821,819	4,587,816
	1899	4,517	279,884	(2)	614,208	915,899	301,691	(2)
12. Nonferrous metals and their prod- ucts	1927	6,658	270,545	380,365	1,780,358	2,668,697	888,339	1,219,598
	1925	6,924	275,292	380,782	1,946,777	2,833,771	886,993	1,158,486
	1923	7,433	296,911	394,024	1,767,072	2,634,032	866,959	1,108,656
	1921	7,801	212,354	256,252	855,836	1,406,875	521,038	(1)
	1919	10,346	304,195	358,638	1,737,025	2,517,417	780,392	951,770
	1914	9,708	238,246	153,955	963,794	1,327,930	364,136	549,328
	1899	4,723	158,702	(2)	469,376	681,620	212,244	(2)
13. Machinery, not in- cluding transpor- tation equipment.	1927	12,037	886,427	1,287,778	2,062,671	5,368,015	3,305,344	3,009,265
	1925	11,807	858,843	1,225,359	1,985,367	5,020,281	3,034,914	2,714,377
	1923	12,147	907,707	1,253,743	1,891,524	4,727,818	2,836,294	2,300,443
	1921	12,395	662,277	832,783	1,361,163	3,235,075	1,873,912	(1)
	1919	14,821	998,484	1,240,487	1,973,458	4,768,673	2,795,216	2,060,325
	1914	13,457	618,737	412,406	662,967	1,582,408	919,442	1,256,908
	1899	12,427	472,571	(2)	407,021	906,250	499,229	(2)
14. Transportation equipment, air, land, and water.	1927	2,537	494,905	803,298	2,907,949	4,693,972	1,786,022	2,008,853
	1925	2,778	559,578	908,488	3,389,101	5,451,753	2,062,652	1,888,961
	1923	3,873	606,328	963,939	3,394,505	5,333,479	1,938,975	1,624,468
	1921	4,273	405,773	591,334	1,803,011	3,018,154	1,215,143	(1)
	1919	6,768	858,582	1,259,014	3,200,602	5,627,263	2,426,661	1,453,804
	1914	7,818	312,562	230,615	639,793	1,137,423	497,630	602,459
	1899	9,825	182,318	(2)	187,890	355,615	167,725	(2)
15. Railroad repair shops.	1927	2,309	428,672	648,908	545,492	1,289,695	744,203	1,110,821
	1925	2,363	467,755	668,192	563,646	1,332,679	769,033	942,248
	1923	2,348	523,430	772,968	631,358	1,520,093	888,734	798,005
	1921	2,326	418,285	671,956	506,571	1,267,343	760,771	(1)
	1919	2,368	515,709	726,690	547,829	1,354,446	806,617	644,875
	1914	2,011	365,902	253,150	261,438	552,618	291,180	478,893
	1899	1,404	180,677	(2)	113,876	227,609	113,733	(2)
16. Miscellaneous-----	1927	14,368	440,966	530,387	1,374,703	3,310,050	1,935,346	840,919
	1925	14,293	440,340	510,122	1,353,006	3,129,654	1,776,638	735,940
	1923	15,602	475,933	529,026	1,429,924	3,005,554	1,575,631	708,780
	1921	15,810	418,175	442,432	1,315,862	2,558,298	1,242,435	(1)
	1919	25,286	516,520	511,666	1,461,559	2,965,415	1,532,856	752,150
	1914	26,632	443,040	228,105	604,336	1,272,695	667,758	450,845
	1899	25,739	301,888	(2)	241,136	575,512	334,376	(2)

<sup>1</sup> Not called for on schedule<sup>2</sup> Data not compiled for 1899 by groups

Source: Bureau of the Census, Department of Commerce.

## No. 797.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES

NOTE.—The figures given in this table do not represent exactly the numbers of wage earners, values of products, etc., assignable to the classes of commodities from which the industries derive their names, as it is necessary for census purposes to classify each establishment as a whole in some one industry, according to the character of its principal product, although in many cases a single establishment manufactures two or more classes of commodities. The figures for cost of materials and value of products for each group and each subgroup include considerable duplication due to the use of the products of one industry as the materials for another, and in some cases similar duplication occurs within an industry. As to comparability of figures see general note, page 785. No data for horsepower were collected for 1921. Horsepower figures for 1919 and 1914 in certain industries differ from those in certain previous reports because of exclusion here and inclusion in the previous reports of data for purchased power other than electric. For totals for all industries and for 16 great groups see Table 796. Five census years have been shown for all industries that reported \$200,000,000 or more in value of products or over 50,000 wage earners in 1927. For other industries 1914, 1925, and 1927 have been shown except as indicated by footnotes.

Industry	Cen- sus year	Num- ber of estab- lish- ments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manu- facture	Horse- power
In thousands of dollars								
FOOD AND KINDRED PRODUCTS								
Animal products, total. <sup>1</sup>	1927	11, 774	189, 645	249, 881	3, 815, 254	4, 563, 036	747, 782	965, 363
	1925	11, 697	187, 183	242, 672	3, 713, 754	4, 453, 477	739, 723	870, 194
	1923	12, 449	203, 548	254, 414	3, 238, 978	3, 951, 221	712, 242	783, 488
	1921	11, 160	180, 535	229, 636	2, 657, 977	3, 241, 845	583, 868	-----
	1914	12, 272	146, 039	90, 751	1, 828, 078	2, 128, 665	300, 587	448, 447
Butter-----	1927	3, 519	20, 096	25, 533	637, 337	739, 011	101, 674	145, 973
	1925	3, 493	17, 758	22, 263	603, 397	683, 593	80, 196	126, 872
	1923	3, 653	20, 312	24, 950	549, 558	640, 474	90, 916	126, 351
	1921	3, 444	18, 506	22, 929	407, 501	479, 724	72, 223	-----
	1914	4, 356	14, 149	10, 120	212, 547	243, 379	30, 832	91, 448
Cheese-----	1927	2, 738	3, 520	4, 897	100, 788	118, 448	17, 660	20, 978
	1925	2, 935	3, 398	4, 320	103, 569	118, 678	15, 109	20, 830
	1914	3, 082	2, 908	2, 066	46, 759	51, 745	4, 986	19, 209
Condensed and evap- orated milk	1927	464	7, 390	9, 191	159, 680	200, 086	40, 406	63, 969
	1925	402	7, 118	8, 391	140, 041	171, 247	31, 206	53, 937
	1914	190	6, 002	3, 662	55, 720	69, 161	13, 441	19, 602
Ice cream-----	1927	2, 961	21, 927	33, 108	150, 602	301, 645	151, 043	206, 315
	1925	2, 790	23, 043	33, 457	140, 864	286, 176	145, 312	189, 328
	1923	2, 762	23, 132	32, 435	145, 307	259, 967	114, 660	169, 730
	1921	2, 528	20, 209	28, 237	121, 170	213, 262	92, 092	-----
	1914	2, 437	10, 376	6, 845	32, 772	55, 983	23, 211	45, 408
Slaughtering and meat packing, wholesale.	1927	1, 250	119, 095	161, 584	2, 663, 740	3, 057, 216	393, 475	489, 576
	1925	1, 269	120, 422	159, 355	2, 625, 192	3, 050, 286	425, 094	441, 516
	1923	1, 397	132, 792	167, 569	2, 176, 010	2, 585, 804	409, 794	382, 127
	1921	1, 184	117, 042	152, 903	1, 868, 198	2, 200, 942	332, 744	-----
	1914	1, 279	98, 832	62, 136	1, 441, 663	1, 651, 965	210, 302	252, 079
Sausage and sausage casings, not made in slaughtering and meat-packing estab- lishments.	1927	505	4, 967	7, 464	60, 216	81, 548	21, 333	19, 980
	1925	489	4, 914	7, 652	61, 497	82, 436	20, 939	18, 184
	1914	533	2, 616	1, 820	17, 926	23, 083	5, 157	7, 840
Canning and preserv- ing: Fish, crabs, shrimps, oysters, and clams	1927	337	12, 650	8, 106	42, 892	65, 082	22, 191	18, 574
	1925	319	10, 530	7, 234	39, 194	61, 061	21, 867	19, 527
	1914	395	11, 156	4, 103	20, 692	33, 949	12, 657	12, 861
Vegetable prod- ucts and bev- erages, total. <sup>1</sup>	1927	38, 013	489, 875	573, 506	4, 298, 179	6, 452, 824	2, 154, 645	3, 169, 610
	1925	36, 250	474, 827	548, 377	3, 996, 163	5, 919, 606	1, 923, 443	3, 006, 074
	1923	39, 271	477, 079	539, 711	3, 730, 085	5, 546, 406	1, 816, 321	2, 937, 531
	1921	46, 784	443, 828	514, 666	3, 435, 634	4, 990, 567	1, 554, 933	-----
	1914	55, 015	389, 044	211, 968	2, 067, 903	2, 836, 179	768, 276	2, 053, 255
Canning and preserv- ing: Fruits and vege- tables, pickles, jellies, preserves, and sauces	1927	2, 436	80, 924	62, 310	355, 186	572, 346	217, 160	189, 831
	1925	2, 403	85, 866	67, 427	385, 573	616, 071	230, 497	187, 490
	1923	2, 438	72, 534	57, 153	298, 968	515, 316	216, 848	175, 714
	1921	1, 905	51, 729	36, 800	237, 682	365, 717	128, 035	-----
	1914	3, 825	62, 915	23, 095	138, 966	210, 091	71, 125	106, 487
Chocolate and cocoa products, not includ- ing confectionery.	1927	69	6, 427	7, 339	90, 423	122, 728	32, 300	62, 742
	1925	60	7, 128	7, 992	73, 522	106, 642	33, 120	58, 266
	1914	36	4, 160	2, 036	24, 483	35, 713	11, 230	19, 676
Coffee and spice, <sup>2</sup> roasting and grind- ing	1927	784	8, 195	9, 537	284, 653	381, 281	99, 629	42, 542
	1923	729	9, 665	10, 016	224, 843	297, 528	72, 684	37, 558
	1921	712	8, 882	9, 372	166, 249	226, 059	59, 810	-----
	1914	696	8, 549	4, 508	116, 520	150, 749	34, 229	26, 556

For footnotes see p 813

## No. 797.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES

NOTE.—The figures given in this table do not represent exactly the numbers of wage earners, values of products, etc., assignable to the classes of commodities from which the industries derive their names, as it is necessary for census purposes to classify each establishment as a whole in some one industry, according to the character of its principal product, although in many cases a single establishment manufactures two or more classes of commodities. The figures for cost of materials and value of products for each group and each subgroup include considerable duplication due to the use of the products of one industry as the materials for another, and in some cases similar duplication occurs within an industry. As to comparability of figures see general note, page 785. No data for horsepower were collected for 1921. Horsepower figures for 1919 and 1914 in certain industries differ from those in certain previous reports because of exclusion here and inclusion in the previous reports of data for purchased power other than electric. For totals for all industries and for 16 great groups see Table 796. Five census years have been shown for all industries that reported \$200,000,000 or more in value of products or over 50,000 wage earners in 1927. For other industries 1914, 1925, and 1927 have been shown except as indicated by footnotes.

Industry	Cen- sus year	Num- ber of estab- lish- ments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manu- facture	Horse- power
In thousands of dollars								
FOOD AND KINDRED PRODUCTS								
Animal products, total. <sup>1</sup>	1927	11, 774	189, 645	249, 881	3, 815, 254	4, 563, 036	747, 782	965, 363
	1925	11, 697	187, 183	242, 672	3, 713, 754	4, 453, 477	739, 723	870, 194
	1923	12, 449	203, 548	254, 414	3, 238, 978	3, 951, 221	712, 242	783, 488
	1921	11, 160	180, 535	229, 636	2, 657, 977	3, 241, 845	583, 868	-----
	1914	12, 272	146, 039	90, 751	1, 828, 078	2, 128, 665	300, 587	448, 447
Butter-----	1927	3, 519	20, 096	25, 533	637, 337	739, 011	101, 674	145, 973
	1925	3, 493	17, 758	22, 263	603, 397	683, 593	80, 196	126, 872
	1923	3, 653	20, 312	24, 950	549, 558	640, 474	90, 916	126, 351
	1921	3, 444	18, 506	22, 929	407, 501	479, 724	72, 223	-----
	1914	4, 356	14, 149	10, 120	212, 547	243, 379	30, 832	91, 448
Cheese-----	1927	2, 738	3, 520	4, 897	100, 788	118, 448	17, 660	20, 978
	1925	2, 935	3, 398	4, 320	103, 569	118, 678	15, 109	20, 830
	1914	3, 082	2, 908	2, 066	46, 759	51, 745	4, 986	19, 209
Condensed and evap- orated milk	1927	464	7, 390	9, 191	159, 680	200, 086	40, 406	63, 969
	1925	402	7, 118	8, 391	140, 041	171, 247	31, 206	53, 937
	1914	190	6, 002	3, 662	55, 720	69, 161	13, 441	19, 602
Ice cream-----	1927	2, 961	21, 927	33, 108	150, 602	301, 645	151, 043	206, 315
	1925	2, 790	23, 043	33, 457	140, 864	286, 176	145, 312	189, 328
	1923	2, 762	23, 132	32, 435	145, 307	259, 967	114, 660	169, 730
	1921	2, 528	20, 209	28, 237	121, 170	213, 262	92, 092	-----
	1914	2, 437	10, 376	6, 845	32, 772	55, 983	23, 211	45, 408
Slaughtering and meat packing, wholesale.	1927	1, 250	119, 095	161, 584	2, 663, 740	3, 057, 216	393, 475	489, 576
	1925	1, 269	120, 422	159, 355	2, 625, 192	3, 050, 286	425, 094	441, 516
	1923	1, 397	132, 792	167, 569	2, 176, 010	2, 585, 804	409, 794	382, 127
	1921	1, 184	117, 042	152, 903	1, 868, 198	2, 200, 942	332, 744	-----
	1914	1, 279	98, 832	62, 136	1, 441, 663	1, 651, 965	210, 302	252, 079
Sausage and sausage casings, not made in slaughtering and meat-packing estab- lishments.	1927	505	4, 967	7, 464	60, 216	81, 548	21, 333	19, 980
	1925	489	4, 914	7, 652	61, 497	82, 436	20, 939	18, 184
	1914	533	2, 616	1, 820	17, 926	23, 083	5, 157	7, 840
Canning and preserv- ing: Fish, crabs, shrimps, oysters, and clams	1927	337	12, 650	8, 106	42, 892	65, 082	22, 191	18, 574
	1925	319	10, 530	7, 234	39, 194	61, 061	21, 867	19, 527
	1914	395	11, 156	4, 103	20, 692	33, 949	12, 657	12, 861
Vegetable prod- ucts and bev- erages, total. <sup>1</sup>	1927	38, 013	489, 875	573, 506	4, 298, 179	6, 452, 824	2, 154, 645	3, 169, 610
	1925	36, 250	474, 827	548, 377	3, 996, 163	5, 919, 606	1, 923, 443	3, 006, 074
	1923	39, 271	477, 079	539, 711	3, 730, 085	5, 546, 406	1, 816, 321	2, 937, 531
	1921	46, 784	443, 828	514, 666	3, 435, 634	4, 990, 567	1, 554, 933	-----
	1914	55, 015	389, 044	211, 968	2, 067, 903	2, 836, 179	768, 276	2, 053, 255
Canning and preserv- ing: Fruits and vege- tables, pickles, jellies, preserves, and sauces	1927	2, 436	80, 924	62, 310	355, 186	572, 346	217, 160	189, 831
	1925	2, 403	85, 866	67, 427	385, 573	616, 071	230, 497	187, 490
	1923	2, 438	72, 534	57, 153	298, 968	515, 316	216, 848	175, 714
	1921	1, 905	51, 729	36, 800	237, 682	365, 717	128, 035	-----
	1914	3, 825	62, 915	23, 095	138, 966	210, 091	71, 125	106, 487
Chocolate and cocoa products, not includ- ing confectionery.	1927	69	6, 427	7, 339	90, 423	122, 728	32, 300	62, 742
	1925	60	7, 128	7, 992	73, 522	106, 642	33, 120	58, 266
	1914	36	4, 160	2, 036	24, 483	35, 713	11, 230	19, 676
Coffee and spice, <sup>2</sup> roasting and grind- ing	1927	784	8, 195	9, 537	284, 653	381, 281	99, 629	42, 542
	1923	729	9, 665	10, 016	224, 843	297, 528	72, 684	37, 558
	1921	712	8, 882	9, 372	166, 249	226, 059	59, 810	-----
	1914	696	8, 549	4, 508	116, 520	150, 749	34, 229	26, 556

For footnotes see p 813



## No. 797.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Cen- sus year	Num- ber of estab- lish- ments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manu- facture	Horse- power
In thousands of dollars								
FOOD AND KINDRED PRODUCTS—Con.								
Vinegar and cider.....	1927	158	1, 123	1, 236	5, 858	10, 755	4, 897	7, 562
	1925	161	1, 243	1, 232	6, 838	12, 233	5, 395	6, 929
	1914	618	1, 229	713	4, 440	7, 811	3, 371	13, 117
Cereal preparations <sup>5</sup> .....	1927	77	6, 028	8, 417	91, 748	155, 563	63, 815	50, 979
	1925	90	6, 168	7, 942	92, 577	150, 079	57, 502	52, 626
	1914	137	5, 177	3, 134	36, 767	59, 985	23, 218	25, 820
Beverages <sup>6</sup> .....	1927	4, 769	26, 972	36, 101	95, 430	242, 694	147, 264	153, 731
	1925	4, 210	27, 384	36, 053	98, 466	237, 761	139, 295	168, 865
	1923	4, 514	29, 274	37, 689	99, 572	228, 730	129, 158	221, 292
	1921	3, 867	33, 202	45, 652	116, 102	237, 628	121, 526	-----
	1914	5, 463	15, 506	8, 864	26, 779	58, 401	31, 622	24, 721
Ice, manufactured.....	1927	3, 159	22, 120	32, 611	40, 816	184, 795	143, 979	965, 406
	1925	3, 077	24, 915	35, 046	44, 725	186, 969	142, 244	923, 134
	1914	2, 543	23, 011	14, 841	17, 755	60, 386	42, 631	458, 938
TEXTILES AND THEIR PRODUCTS								
Textile-mill prod- ucts, total. <sup>10</sup>	1927	7, 244	1, 119, 733	1, 099, 735	2, 762, 674	4, 933, 282	2, 170, 607	3, 906, 023
	1925	7, 470	1, 110, 209	1, 065, 262	3, 234, 035	5, 542, 617	2, 108, 583	3, 748, 885
	1923	7, 816	1, 164, 638	1, 122, 751	3, 213, 272	5, 527, 557	2, 814, 285	3, 556, 440
	1921	7, 241	993, 557	896, 873	2, 136, 803	3, 896, 449	1, 759, 646	-----
	1914	5, 942	950, 880	404, 606	1, 185, 091	1, 935, 344	750, 253	2, 522, 862
Cotton goods.....	1927	1, 347	467, 596	380, 910	871, 592	1, 567, 401	695, 809	2, 358, 830
	1925	1, 366	445, 184	353, 883	1, 077, 153	1, 714, 368	637, 215	2, 236, 363
	1923	1, 375	471, 503	396, 608	1, 147, 372	1, 901, 126	753, 754	2, 153, 299
	1921	1, 328	412, 058	328, 227	707, 442	1, 278, 221	570, 779	-----
	1914	1, 179	379, 366	146, 130	431, 603	676, 569	244, 966	1, 563, 823
Cotton small wares <sup>11</sup> .....	1927	220	14, 958	15, 333	32, 222	64, 820	32, 598	29, 205
	1925	230	16, 162	15, 547	41, 816	74, 675	32, 859	33, 780
	1923	228	16, 387	15, 957	38, 615	73, 223	34, 608	31, 626
Lace goods.....	1927	43	6, 482	7, 585	11, 392	27, 298	15, 906	11, 309
	1925	42	7, 006	7, 620	13, 361	30, 844	17, 482	9, 507
	1914	41	7, 440	3, 468	6, 677	13, 207	7, 530	8, 817
Knit goods.....	1927	1, 869	190, 283	188, 163	424, 099	816, 620	392, 521	177, 216
	1925	1, 987	186, 668	168, 683	453, 926	809, 960	356, 034	176, 630
	1923	2, 323	194, 244	168, 272	484, 020	848, 177	364, 157	183, 675
	1921	2, 078	161, 880	132, 190	360, 458	634, 074	273, 616	-----
	1914	1, 622	150, 520	59, 758	146, 687	258, 913	112, 226	122, 919
Silk manufactures.....	1927	1, 648	127, 643	140, 054	445, 391	750, 124	304, 733	221, 249
	1925	1, 659	132, 509	142, 734	484, 123	808, 979	324, 857	212, 609
	1923	1, 598	125, 234	126, 849	479, 038	761, 322	282, 284	206, 020
	1921	1, 565	121, 378	113, 396	337, 559	583, 419	245, 869	-----
	1914	902	108, 170	47, 109	144, 442	254, 011	109, 569	111, 417
Woolen goods.....	1927	471	61, 790	72, 156	172, 700	301, 309	128, 699	191, 708
	1925	503	67, 056	82, 436	219, 618	361, 524	141, 906	193, 080
	1923	513	72, 408	87, 314	201, 548	364, 288	162, 740	180, 657
	1921	493	56, 434	62, 893	120, 276	230, 945	110, 669	-----
	1914	501	49, 165	24, 204	68, 696	103, 816	40, 120	133, 052
Worsted goods.....	1927	288	92, 571	101, 686	329, 408	516, 670	187, 262	364, 422
	1925	329	98, 168	108, 835	400, 784	596, 266	195, 453	377, 215
	1923	338	122, 144	135, 671	421, 184	698, 271	277, 087	357, 808
	1921	321	105, 930	112, 001	279, 770	524, 639	244, 869	-----
	1914	298	109, 527	51, 749	182, 801	275, 668	92, 868	242, 521
Felt goods, wool or hair.	1927	50	5, 452	6, 653	23, 289	41, 895	18, 606	23, 479
	1925	50	5, 146	6, 404	26, 354	43, 778	17, 421	23, 478
	1914	53	4, 035	2, 089	8, 308	13, 693	5, 385	14, 016
Hats, wool-felt.....	1927	17	2, 185	2, 284	4, 785	9, 382	4, 597	2, 422
	1925	22	1, 854	1, 986	5, 123	8, 949	3, 826	2, 550
	1914	30	1, 249	600	978	1, 945	967	3, 091
Hats, fur-felt.....	1927	146	15, 927	22, 887	51, 105	99, 300	48, 195	20, 526
	1925	146	15, 156	20, 466	40, 124	80, 066	39, 942	17, 948
	1914	224	21, 318	12, 071	16, 947	37, 350	20, 403	20, 774
Carpets and rugs, wool, other than rag.	1927	65	32, 829	42, 041	85, 602	166, 888	81, 287	65, 828
	1925	69	33, 886	43, 883	104, 196	187, 779	83, 583	63, 008
	1914	97	31, 309	14, 716	42, 280	69, 128	26, 848	42, 794

For footnotes see p. 813.

## No. 797.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Cen- sus year	Num- ber of estab- lish- ments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manu- facture	Horse- power
				In thousands of dollars				
TEXTILES, ETC.—Con								
Wool shoddy.....	1927	55	1,679	1,916	7,981	12,597	4,616	15,353
	1925	68	2,218	2,609	14,912	21,022	6,109	15,435
	1914	64	2,145	1,056	5,300	7,707	2,407	12,244
Wool pulling.....	1927	18	524	769	12,466	14,640	2,174	2,403
	1925	23	573	841	13,637	15,209	1,572	2,706
	1914	34	708	452	6,632	8,273	1,641	2,248
Wool scouring.....	1927	25	1,386	1,982	3,010	6,662	3,652	7,935
	1925	25	1,112	1,601	2,527	5,831	3,304	7,823
	1914	24	1,059	617	3,176	4,565	1,389	7,579
Cordage and twine.....	1927	116	15,084	13,674	56,105	89,172	33,067	74,924
	1925	118	15,490	14,019	66,848	100,448	33,600	77,563
	1914	105	15,769	6,996	43,605	59,762	16,157	55,272
Jute goods.....	1927	23	5,358	4,987	11,802	23,186	11,384	36,210
	1925	23	6,312	5,640	14,567	27,517	12,951	28,753
	1914	34	7,987	3,060	12,580	16,514	3,934	28,533
Flax and hemp, dressed	1927	7	62	51	116	283	167	654
	1925	9	82	89	244	459	215	1,457
	1914	16	116	45	185	283	98	832
Linen goods.....	1927	18	2,530	2,545	5,409	10,377	4,968	11,473
	1925	18	2,607	2,462	6,394	11,157	4,762	12,119
	1914	21	3,567	1,866	4,289	6,960	2,671	9,932
Mats and matting, grass and coir.	1927	7	422	398	669	1,537	868	1,425
	1925	10	902	767	1,526	3,492	1,965	2,147
	1914	12	869	455	1,170	2,236	1,066	1,643
Harcloth.....	1927	16	385	480	2,689	3,616	927	1,312
	1925	15	355	387	1,897	2,746	849	1,058
	1914	19	595	290	1,654	2,396	742	1,589
Dyeing and finishing textiles	1927	743	73,851	91,697	210,681	406,047	195,366	287,212
	1925	697	70,749	83,983	220,678	408,515	187,837	252,701
	1923	713	63,414	72,525	199,156	366,623	167,467	204,128
	1921	599	51,510	58,139	141,199	276,751	135,552	-----
	1914	507	48,467	24,872	56,705	109,292	52,587	129,327
Cloth, sponging and refinishing.	1927	52	736	1,502	161	3,458	3,297	933
	1925	61	931	1,889	203	3,889	3,685	975
	1914	51	901	658	133	1,531	1,398	677
Wearing apparel made from pur- chased fabrics, total.	1927	16,259	511,151	590,141	1,805,240	3,456,304	1,651,063	130,587
	1925	14,833	466,846	534,523	1,741,018	3,243,349	1,502,231	119,744
	1923	16,904	499,413	568,139	1,852,229	3,443,940	1,591,711	132,317
	1921	16,784	473,674	534,312	1,424,284	2,710,657	1,286,373	-----
	1914	14,953	510,595	250,114	673,013	1,297,273	624,260	117,911
Clothing (except work clothing), men's, youths', and boys', not elsewhere classi- fied. <sup>12</sup>	1927	3,562	146,099	184,613	447,245	932,182	484,937	34,351
	1925	3,491	141,511	179,045	471,501	946,274	474,773	33,207
	1923	4,607	194,820	235,487	584,804	1,178,715	593,911	52,642
	1921	4,539	165,206	201,882	447,545	934,776	487,231	-----
	1914	4,830	173,747	86,828	230,032	458,211	228,179	35,252
Clothing, work (except shirts), men's. <sup>12</sup>	1927	556	40,612	29,946	85,134	147,289	62,155	11,218
	1925	509	32,821	24,803	85,969	140,964	54,994	11,542
Clothing, men's, but- tonholes.	1927	40	412	429	98	918	820	132
	1925	30	327	347	71	658	587	87
	1914	139	672	326	90	638	548	203
Shirts.....	1927	907	57,216	42,998	129,744	241,650	111,906	14,916
	1925	840	49,864	35,674	129,754	225,963	96,209	13,884
	1923	934	51,672	37,943	139,354	241,331	101,977	14,050
	1921	860	45,427	33,182	123,259	203,944	80,685	-----
	1914	792	51,972	19,170	50,665	95,815	45,150	17,117
Furnishing goods, men's, not elsewhere classified. <sup>13</sup>	1927	534	25,183	22,070	82,839	145,474	62,635	7,190
	1925	419	21,094	17,438	69,861	120,868	51,006	4,977
	1914	551	22,459	8,416	31,593	52,453	20,860	5,840

For footnotes see p 813

## No. 797.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Cen- sus year	Num- ber of estab- lish- ments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manu- facture	Horse- power
TEXTILES, ETC.—Con								
Collars, men's.-----	1927	24	3, 270	2, 967	5, 867	13, 264	7, 398	3, 131
	1925	28	7, 187	5, 503	11, 792	27, 588	15, 795	4, 497
	1914	35	10, 100	4, 494	6, 566	18, 531	11, 965	3, 359
Gloves and mittens, cloth or chiefly cloth, made from purchased fabrics <sup>13</sup>	1927	131	10, 296	6, 670	17, 392	30, 202	12, 810	4, 112
	1925	139	9, 061	5, 709	17, 977	29, 532	11, 554	4, 102
	1923	129	8, 864	5, 296	18, 292	28, 126	9, 834	3, 143
Suspenders, garters and elastic woven goods, made from purchased webbing <sup>11</sup>	1927	91	4, 061	3, 529	16, 260	26, 985	10, 726	983
	1925	93	3, 835	3, 072	16, 500	27, 504	11, 004	876
	1923	100	3, 458	2, 892	13, 934	24, 297	10, 363	809
Hats and caps, except felt and straw	1927	568	6, 300	9, 126	20, 702	41, 214	20, 512	1, 999
	1925	579	6, 552	9, 243	22, 699	43, 823	21, 124	1, 876
	1914	580	7, 322	4, 508	9, 268	18, 593	9, 325	1, 313
Clothing, women's, ex- clusive of corsets and allied garments made in knitting mills	1927	7, 588	154, 459	211, 350	809, 520	1, 494, 401	684, 881	30, 287
	1925	6, 127	126, 466	175, 045	724, 299	1, 293, 705	569, 406	24, 316
	1923	7, 046	133, 195	176, 446	809, 561	1, 406, 684	597, 123	27, 704
	1921	7, 061	144, 865	185, 082	567, 810	1, 022, 743	454, 933	-----
	1914	5, 564	168, 907	92, 574	252, 345	473, 888	221, 543	27, 874
Corsets and allied gar- ments	1927	222	13, 778	12, 402	35, 894	77, 218	41, 824	78, 19
	1925	185	14, 525	12, 394	37, 808	77, 115	39, 307	8, 394
	1914	167	20, 496	7, 977	19, 587	40, 551	20, 964	6, 962
Handkerchiefs <sup>14</sup> -----	1927	115	6, 669	5, 264	18, 205	31, 588	13, 383	2, 665
Millinery <sup>15</sup> -----	1927	1, 148	33, 311	46, 788	103, 490	209, 495	106, 005	7, 920
Trimmings (not made in textile mills) and lace-trimmed articles, not elsewhere classi- fied <sup>14</sup>	1927	773	9, 495	11, 989	33, 350	64, 423	31, 073	3, 864
Other articles made from pur- chased fabrics, total. <sup>1</sup>	1927	3, 340	63, 532	70, 082	354, 802	560, 888	206, 086	136, 828
	1925	2, 097	51, 228	53, 729	374, 272	539, 689	165, 417	117, 893
	1923	2, 043	51, 242	52, 908	328, 941	490, 755	161, 844	94, 644
	1921	1, 930	42, 607	41, 667	240, 003	349, 360	109, 357	-----
	1914	2, 455	44, 437	21, 063	155, 633	212, 195	56, 562	76, 305
Awnings, tents, sails, and canvas covers	1927	963	6, 543	8, 229	24, 410	47, 929	23, 520	4, 850
	1925	905	6, 249	7, 501	27, 453	48, 569	21, 116	4, 564
	1914	888	5, 073	2, 954	10, 155	18, 138	7, 983	2, 602
Bags, other than paper, not made in textile mills.	1927	181	11, 164	9, 548	136, 748	162, 950	26, 201	15, 754
	1925	162	11, 404	9, 332	150, 102	175, 082	24, 980	15, 295
	1914	138	9, 358	3, 789	67, 022	79, 049	12, 027	10, 381
Belting, other than leather and rubber, made from purchased fabrics. <sup>11</sup>	1927	11	343	411	1, 490	3, 212	1, 722	1, 457
	1925	11	254	264	1, 596	3, 112	1, 516	914
	1923	13	335	351	1, 674	3, 312	1, 638	930
Embroideries <sup>15</sup> -----	1927	1, 069	8, 964	10, 962	7, 960	32, 419	24, 459	2, 930
Horse blankets, fly nets, and related products.	1927	16	660	574	1, 878	3, 379	1, 501	1, 421
	1925	20	694	564	2, 535	3, 897	1, 362	1, 773
	1914	37	1, 669	668	3, 569	5, 150	1, 581	1, 903
Flags and banners-----	1927	46	1, 046	898	2, 282	4, 536	2, 254	700
	1925	49	1, 031	890	2, 332	4, 588	2, 256	629
	1914	87	1, 495	690	1, 750	3, 601	1, 851	637
Regalia, badges, and emblems.	1927	76	1, 675	1, 760	3, 019	7, 691	4, 672	1, 015
	1925	85	1, 992	2, 033	3, 962	9, 623	5, 661	1, 068
	1914	138	2, 010	980	2, 205	5, 025	2, 820	655
Hat and cap materials, men's.	1927	96	2, 762	2, 659	15, 672	23, 339	7, 668	5, 158
	1925	89	2, 127	2, 413	15, 218	22, 049	6, 831	5, 141
	1914	98	1, 775	804	5, 052	6, 929	1, 877	2, 946
Nets and seines-----	1927	21	869	776	3, 348	5, 401	2, 053	1, 162
	1925	21	885	762	3, 479	5, 157	1, 678	1, 190
	1914	15	1, 058	379	2, 257	3, 088	831	1, 903

For footnotes see p. 813.

## No. 797.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Cen- sus year	Num- ber of estab- lish- ments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manu- facture	Horse- power
TEXTILES, ETC.—Con								
House-furnishing goods, not elsewhere classi- fied	1927	548	11,691	10,947	52,705	87,677	34,972	12,997
	1925	433	9,307	9,143	51,079	78,655	27,576	10,702
	1914	370	6,935	3,306	17,391	26,453	9,062	11,276
Carpets and rugs, rag--	1927	110	1,633	1,678	1,636	5,890	4,254	2,005
	1925	139	1,901	1,876	1,942	5,710	3,767	2,349
	1914	463	2,130	995	722	2,786	2,064	2,656
Linoleum <sup>16</sup>	1927	7	5,364	8,177	24,216	47,442	23,227	41,432
	1925	6	4,872	6,393	19,967	44,999	25,033	31,840
	1914	18	4,428	2,604	11,252	17,602	6,350	18,782
Oilcloth-----	1927	8	1,072	1,746	11,819	17,642	5,824	3,565
	1925	9	1,160	1,675	13,549	17,843	4,294	3,484
	1914	13	1,223	609	6,524	7,996	1,472	3,490
Artificial leather-----	1927	19	2,730	4,007	21,828	34,228	12,400	14,467
	1925	18	2,659	3,801	31,238	40,932	9,693	10,593
	1914	10	795	485	4,108	6,097	1,989	1,674
Asphalted-felt-base floor coverings <sup>16</sup>	1927	12	2,442	3,695	16,186	34,101	17,914	8,904
	1925	11	2,464	3,338	14,930	32,532	17,602	9,575
	1923	9	1,682	2,204	9,140	25,280	16,140	2,700
Upholstering materials, not elsewhere classi- fied	1927	39	1,080	1,162	6,556	9,673	3,117	4,482
	1925	34	1,196	1,174	5,123	7,998	2,875	3,380
	1914	70	2,454	1,101	5,285	7,879	2,594	6,198
Waste <sup>17</sup> -----	1927	118	3,494	2,853	23,049	33,377	10,328	14,529
	1925	105	3,033	2,570	29,766	38,943	9,177	13,664
	1914	79	3,082	1,239	15,473	17,959	2,486	8,506
LUMBER AND ALLIED PRODUCTS								
Basic industries, total.	1927	8,723	453,131	431,496	508,680	1,259,370	750,690	1,795,875
	1925	10,286	497,803	473,085	593,935	1,468,427	874,492	2,064,631
	1923	10,671	531,545	492,617	584,802	1,534,991	950,188	1,944,962
	1921	10,233	392,756	323,977	386,881	930,015	543,134	-----
	1914	28,722	515,780	249,118	288,890	738,816	449,926	2,203,552
Excelsior-----	1927	64	1,272	1,181	2,547	4,821	2,274	10,930
	1925	72	1,300	1,180	2,573	4,901	2,328	11,993
	1914	99	1,177	558	1,403	2,516	1,113	10,715
Lumber and timber products, not else- where classified	1927	7,510	413,946	413,362	493,959	1,214,646	720,687	1,781,734
	1925	9,207	467,090	456,716	579,475	1,421,162	841,687	2,049,500
	1923	9,393	495,932	475,962	573,064	1,494,462	921,398	1,932,091
	1921	9,092	364,247	313,487	377,927	902,501	524,574	-----
	1914	27,229	479,786	239,977	281,952	715,310	433,358	2,190,359
Turpentine and rosin..	1927	1,149	37,913	16,953	12,173	39,903	27,730	3,211
	1925	1,007	29,413	15,190	11,887	42,364	30,477	3,138
	1914	1,394	34,817	8,583	5,536	20,990	15,454	2,478
Wood reworking industries, total.	1927	5,389	113,824	145,542	351,547	653,934	302,388	706,207
	1925	5,527	127,519	164,482	431,397	778,051	346,654	659,953
	1923	4,963	120,239	151,573	430,991	762,017	331,026	583,302
	1921	5,118	91,924	110,717	298,050	518,386	220,336	-----
	1914	6,955	113,117	71,000	198,996	340,476	141,479	466,155
Lumber Planing-mill products, not made in planing mills con- nected with saw- mills.	1927	4,561	96,589	126,140	321,443	581,634	260,190	630,674
	1925	4,761	111,329	146,592	403,227	710,861	307,635	597,103
	1923	4,215	103,008	133,329	401,174	692,734	291,610	493,424
	1921	4,366	78,033	95,954	272,082	462,649	190,567	-----
	1914	5,841	96,214	61,949	184,227	307,672	123,445	410,259
Window and door screens and weather strips.	1927	214	3,661	4,806	9,304	22,643	13,339	11,520
	1925	183	3,803	4,687	9,545	22,398	12,853	10,674
	1914	220	3,194	1,894	4,261	9,167	4,906	8,128
Wood, turned, and carved, n. e. c.	1927	555	11,856	12,093	18,294	42,128	23,384	56,358
	1925	521	10,362	10,190	15,576	35,491	19,915	44,664
	1914	828	11,615	5,645	9,166	19,047	9,881	42,541
Lasts and related prod- ucts.	1927	59	1,718	2,504	2,505	7,529	5,024	7,655
	1925	62	2,035	3,012	3,049	9,301	6,252	7,512
	1914	66	2,094	1,611	1,343	4,589	3,246	5,227

## No. 797.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horse-power								
In thousands of dollars																
<b>LUMBER, ETC.—Con</b>																
Wooden container industries, total.	1927	1,648	56,124	52,721	134,471	235,578	101,107	192,489								
	1925	1,762	57,961	55,671	142,775	249,612	106,837	192,281								
	1923	1,872	62,121	58,271	154,804	265,501	110,696	200,457								
	1921	1,872	51,923	45,796	125,865	204,779	78,914	-----								
	1914	3,090	66,085	31,588	93,052	151,500	58,447	174,968								
Boxes, wooden, except cigar boxes.	1927	748	30,797	29,250	75,797	133,993	58,195	135,637								
	1925	824	34,834	33,765	86,391	152,295	65,903	143,519								
	1914	1,174	38,548	18,206	52,840	86,567	33,727	124,249								
Boxes, cigar, wooden.	1927	136	4,577	3,925	5,621	12,909	7,288	5,478								
	1925	155	4,836	3,967	5,450	12,925	7,474	5,210								
	1914	238	5,835	2,299	4,269	8,337	4,068	5,261								
Cooperage.	1927	528	11,455	12,937	43,821	66,947	23,126	33,553								
	1925	553	11,483	12,908	44,176	67,735	23,559	30,758								
	1914	1,259	17,128	9,161	32,944	50,017	17,073	38,177								
Baskets and rattan and willow ware, not including furniture	1927	236	9,295	6,608	9,231	21,729	12,498	17,821								
	1925	230	6,808	5,033	6,758	16,658	9,900	12,794								
	1914	419	4,574	1,923	2,999	6,578	3,579	7,291								
Furniture and related industries, total.	1927	3,587	201,497	256,169	423,985	964,470	540,535	477,958								
	1925	3,601	195,643	244,886	418,235	951,170	532,935	434,238								
	1923	3,434	182,014	222,461	372,545	851,801	479,256	369,484								
	1921	3,449	134,937	157,245	279,041	606,239	327,198	-----								
	1914	3,964	142,280	80,809	138,396	302,571	164,174	258,354								
Furniture, including store and office fixtures. <sup>12</sup>	1927	3,222	186,302	236,109	389,390	879,706	490,317	445,179								
	1925	3,239	181,016	225,298	384,875	868,720	483,845	402,719								
	1923	3,047	168,157	204,566	342,443	776,847	434,404	344,954								
	1921	3,038	124,362	144,148	253,706	550,413	296,707	-----								
	1914	3,338	130,423	73,402	124,096	271,610	147,514	239,932								
Refrigerators and refrigerator cabinets, excluding mechanical refrigerator equipment.	1927	165	9,551	12,617	25,095	58,163	33,068	24,216								
	1925	167	9,360	12,589	24,744	57,666	32,922	23,297								
	1914	134	5,617	3,572	7,343	15,052	7,709	11,151								
Billiard and pool tables, bowling alleys, and accessories.	1927	34	1,184	1,550	2,394	7,112	4,718	2,335								
	1925	33	1,037	1,354	1,781	5,614	3,834	2,120								
	1914	54	1,453	985	2,488	4,894	2,406	3,197								
Mirror and picture frames	1927	166	4,460	5,893	7,056	19,489	12,432	6,228								
	1925	162	4,230	5,646	6,835	19,170	12,335	6,102								
	1914	438	4,787	2,850	4,468	11,014	6,546	4,054								
Other allied products, total.	1927	816	38,091	43,860	215,307	344,075	128,768	149,226								
	1925	750	35,432	40,247	139,009	241,866	102,857	121,867								
	1923	738	35,807	37,673	123,252	219,076	95,824	127,535								
	1921	726	31,820	32,727	107,790	197,437	89,647	-----								
	1914	735	28,032	14,382	46,601	83,091	36,491	73,407								
Caskets, coffins, burial cases, and morticians' goods.	1927	340	11,065	14,421	33,327	74,891	41,563	31,105								
	1925	326	11,479	14,057	32,771	70,413	37,641	29,164								
	1914	287	9,468	5,382	13,257	26,325	13,068	18,969								
Rules, wood, metal, and other. <sup>13</sup>	1923	11	219	218	239	759	520	714								
	1914	10	408	224	187	634	447	441								
Cork products.	1927	27	3,185	3,560	9,395	17,369	7,974	11,683								
	1925	33	3,297	3,538	7,269	16,020	8,752	11,084								
	1914	52	3,464	1,582	4,751	7,875	3,124	5,786								
Matches.	1927	19	3,905	4,131	11,884	24,906	13,022	17,607								
	1925	25	4,627	4,707	12,913	23,741	10,828	16,314								
	1914	20	3,800	1,758	5,202	12,556	7,354	7,457								
Pulp goods.	1927	44	2,996	37,83	11,375	23,950	12,575	17,158								
	1925	35	3,017	3,767	10,286	20,270	9,984	11,338								
	1914	24	1,654	884	2,191	4,483	2,292	8,820								
Wood preserving.	1927	193	12,259	13,726	141,555	184,558	43,003	50,606								
	1925	131	8,416	9,606	66,709	91,184	24,475	35,121								
	1914	68	2,830	1,785	16,090	21,055	4,995	11,551								
Wooden goods, not elsewhere classified	1927	193	4,081	4,240	7,770	18,402	10,632	21,206								
	1925	200	4,596	4,672	9,060	20,238	11,177	20,067								
	1914	274	6,418	2,767	4,952	10,162	5,210	44,383								

For footnotes see p. 813.

## No. 797.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horse-power								
In thousands of dollars																
<b>PAPER AND PAPER PRODUCTS</b>																
Paper and wood pulp.	1927	929	123,360	162,002	724,111	1,138,090	413,979	2,642,806								
	1925	763	123,842	160,146	605,860	971,882	366,022	2,427,010								
	1923	746	120,677	151,477	573,727	907,347	333,620	2,178,623								
	1921	738	105,294	127,029	445,992	667,436	221,444	-----								
	1914	718	88,457	53,246	213,181	332,147	118,966	1,611,954								
Paper <sup>20</sup> -----	1927	710	98,566	130,475	572,786	919,891	347,106	2,642,806								
Wood pulp <sup>20</sup> -----	1927	219	24,794	31,527	151,825	218,198	66,873	( <sup>21</sup> )								
Manufactures of paper, total <sup>1</sup>	1927	2,060	102,146	111,569	360,821	661,690	300,869	171,989								
	1925	1,980	98,903	104,546	315,798	588,597	272,799	148,510								
	1923	1,958	99,278	99,765	306,210	558,882	252,672	135,910								
	1921	1,880	80,278	76,518	224,416	414,895	190,480	-----								
	1914	1,759	79,368	36,176	102,278	190,569	88,291	85,670								
Bags, paper, exclusive of those made in paper mills.	1927	88	6,463	6,394	40,735	57,490	16,755	9,336								
	1925	66	5,585	5,524	29,957	45,978	16,021	6,414								
	1914	59	3,505	1,659	12,201	17,603	5,402	3,677								
Boxes, paper and other, not elsewhere classified.	1927	1,219	56,398	57,701	168,464	306,555	138,091	81,300								
	1925	1,229	57,148	57,172	151,712	281,944	130,232	76,185								
	1923	1,216	56,855	53,966	144,080	264,900	120,129	61,687								
	1921	1,191	46,242	40,477	88,268	174,248	85,980	-----								
	1914	1,043	45,311	18,705	36,268	74,711	38,443	37,340								
Labels and tags-----	1927	121	6,141	8,000	16,259	34,398	18,138	6,869								
	1925	113	5,356	6,730	13,096	28,045	14,950	4,808								
	1914	108	2,600	1,459	2,908	6,584	3,676	2,155								
Paper patterns-----	1927	17	1,069	1,418	2,569	13,782	11,213	1,101								
	1925	16	1,243	1,595	2,001	13,665	11,664	813								
	1914	25	1,073	577	626	3,026	2,400	356								
Card cutting and designing	1927	60	2,024	2,707	7,544	16,871	9,327	3,915								
	1925	49	1,086	1,084	2,436	6,201	3,766	1,355								
	1914	58	517	265	421	1,055	634	841								
Cardboard, not made in paper mills.	1927	9	658	849	2,868	5,581	2,713	1,779								
	1925	13	978	1,188	3,475	7,288	3,813	1,795								
	1914	18	1,159	580	2,962	4,350	1,388	2,685								
Envelopes-----	1927	153	9,745	10,754	28,973	56,006	27,033	11,991								
	1925	135	9,052	9,987	27,423	51,189	23,766	10,288								
	1914	90	6,970	3,378	10,235	18,481	8,246	5,196								
Wall paper-----	1927	53	4,811	5,981	14,612	30,059	15,447	13,343								
	1925	49	5,069	5,863	14,999	30,089	15,070	11,528								
	1914	48	4,738	2,703	8,536	15,887	7,351	6,930								
Paper goods, not elsewhere classified.	1927	340	14,837	17,765	78,797	140,948	62,151	42,955								
	1925	310	13,386	15,403	70,700	124,217	53,517	35,324								
	1914	310	13,495	6,850	28,120	48,871	20,751	26,800								
<b>PRINTING, PUBLISHING, AND ALLIED INDUSTRIES</b>																
Printing and publishing. <sup>1</sup>	1927	22,541	261,671	473,221	661,959	2,507,426	1,845,467	481,194								
	1925	21,056	251,272	438,833	610,059	2,269,638	1,659,580	408,808								
	1923	20,452	246,455	399,388	585,936	2,021,356	1,435,420	357,048								
	1921	20,318	229,489	356,671	589,279	1,827,809	1,238,530	-----								
	1914	31,612	228,369	167,548	226,582	810,508	583,926	295,567								
Printing and publishing, book and job.	1927	11,449	141,278	240,393	250,487	906,469	655,982	193,617								
	1925	10,322	133,316	219,830	228,690	806,887	578,197	169,283								
	1923	10,075	129,890	201,217	220,203	738,227	518,024	152,363								
	1921	9,758	121,055	181,066	216,139	690,075	473,936	-----								
	1914	12,115	113,121	78,414	96,453	307,331	210,878	113,210								
Printing and publishing, music.	1927	119	994	1,678	1,658	15,882	14,223	1,343								
	1925	109	955	1,462	1,828	15,090	13,261	1,363								
	1914	180	873	573	1,047	7,271	6,224	594								
Printing and publishing, newspapers and periodicals.	1927	10,973	119,399	231,151	409,814	1,585,076	1,175,262	286,234								
	1925	10,625	117,001	217,541	379,541	1,447,661	1,068,130	237,662								
	1923	10,267	115,646	196,804	363,480	1,268,502	905,022	203,454								
	1921	10,453	107,534	174,359	371,124	1,123,710	752,586	-----								
	1914	19,317	114,375	88,561	129,082	495,906	366,824	181,763								

For footnotes see pp 813 and 814.

## No. 797.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horse-power
In thousands of dollars								
<b>PRINTING, PUBLISHING, AND ALLIED INDUSTRIES—Con.</b>								
Other industries related to printing and publishing, total. <sup>1</sup>	1927	2,875	65,863	111,544	90,509	338,652	248,143	87,233
	1925	2,754	62,749	101,991	82,517	313,667	231,050	76,966
	1914	3,120	56,812	39,596	39,227	123,591	84,365	45,882
Bookbinding and blank-book making	1927	1,063	21,909	28,281	25,875	87,327	61,452	19,038
	1925	970	20,836	26,006	24,127	81,600	57,473	16,147
	1914	1,124	21,693	11,575	13,334	38,104	24,770	10,842
Engravers' materials...	1927	17	178	294	1,289	2,169	879	864
	1925	16	177	276	1,202	2,014	812	921
	1914	13	106	73	551	768	217	491
Engraving, steel and copperplate, and plate printing.	1927	393	8,549	11,886	10,236	39,071	28,835	6,894
	1925	368	7,259	10,169	7,628	32,106	24,478	5,764
	1914	399	6,859	4,527	3,915	13,786	9,871	5,670
Engraving (other than steel, copperplate, or wood), chasing, etching, and diesinking.	1927	173	1,805	2,612	2,078	7,931	5,853	2,028
	1925	188	1,827	2,691	2,177	8,623	6,446	1,753
	1914	486	1,536	1,076	596	3,134	2,538	1,035
Engraving, wood.....	1927	23	132	291	76	641	565	45
	1925	22	117	234	46	525	479	32
	1914	72	302	310	96	719	623	68
Photo-engraving, not done in printing establishments.	1927	611	11,033	28,381	10,790	69,207	58,417	9,366
	1925	577	9,868	24,321	8,393	58,640	50,248	6,735
	1914	376	6,211	6,167	2,798	15,359	12,561	3,724
Lithographing.....	1927	309	16,348	27,466	32,704	97,050	64,346	28,541
	1925	331	16,957	27,107	32,171	98,721	66,550	28,623
	1914	336	15,171	11,861	14,017	39,136	25,119	15,024
Stereotyping and electrotyping, not done in printing establishments.	1927	197	4,502	10,273	4,677	25,549	20,872	16,888
	1925	193	4,283	9,207	4,280	22,361	18,081	13,774
	1914	189	3,457	3,001	2,255	8,154	5,899	6,743
Printing materials, not including type or printing ink.	1927	70	882	1,402	2,034	7,022	4,988	2,339
	1925	71	888	1,379	1,787	6,526	4,739	1,981
	1914	94	423	340	763	2,111	1,348	638
Type founding.....	1927	19	525	658	749	2,684	1,935	1,230
	1925	18	537	603	705	2,451	1,745	1,236
	1914	31	1,054	666	901	2,320	1,419	1,647
<b>CHEMICALS AND ALLIED PRODUCTS</b>								
Total, exclusive of alcohol and liquor industries.	1927	7,545	252,674	316,825	1,788,883	3,326,884	1,538,001	1,843,230
	1925	7,277	243,759	295,245	1,797,059	3,163,328	1,366,269	1,740,581
	1923	7,181	245,533	287,665	1,689,475	2,907,315	1,217,840	1,646,136
	1921	7,293	198,460	222,823	1,334,252	2,201,284	867,032	-----
	1914	9,536	188,232	106,270	833,682	1,304,004	470,322	995,599
Chemicals and allied products other than animal, vegetable, and compound oils, total.	1927	6,805	229,242	294,889	1,415,504	2,867,635	1,452,131	1,531,273
	1925	6,562	222,719	276,400	1,381,746	2,664,614	1,282,868	1,468,421
	1923	6,476	227,313	272,273	1,323,542	2,485,194	1,161,652	1,391,965
	1921	6,488	177,945	205,246	1,027,798	1,849,876	822,078	-----
	1914	10,345	233,293	153,589	765,376	1,672,186	906,811	1,184,218
Ammunition and related products.	1927	20	7,602	8,266	20,945	45,602	24,657	17,175
	1925	27	7,777	7,987	22,820	41,707	18,887	23,316
	1914	32	11,493	6,751	16,277	30,840	14,563	11,354
Explosives.....	1927	100	5,803	8,131	36,894	72,490	35,596	38,239
	1925	103	5,697	7,731	37,877	69,689	31,791	37,808
	1914	111	6,306	4,488	25,627	41,433	15,806	45,778

For footnotes see p. 813.

## No. 797.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Cen- sus year	Num- ber of estab- lish- ments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manu- facture	Horse- power								
In thousands of dollars																
<b>CHEMICALS, ETC.—</b> Continued																
Fireworks.....	1927	36	1,564	1,395	2,624	5,885	3,261	1,300								
	1925	41	1,446	1,429	2,399	6,031	3,632	1,148								
	1914	41	1,324	616	1,206	2,296	1,090	707								
Baking powders, yeast, and other leavening compounds.	1927	47	3,032	4,794	24,619	85,151	60,531	42,816								
	1925	49	2,931	4,063	23,376	74,593	51,217	36,633								
	1914	124	2,270	1,241	10,895	22,339	11,444	7,862								
Blacking, stains, and dressings.	1927	176	1,716	2,181	9,186	22,548	13,363	4,005								
	1925	171	1,869	2,164	9,734	25,055	15,322	2,659								
	1914	197	1,766	877	5,129	9,882	4,753	2,442								
Bluing.....	1927	20	155	151	594	1,674	1,080	363								
	1925	23	176	185	1,017	2,167	1,150	366								
	1914	66	254	105	489	1,184	695	216								
Bone black, carbon black, and lamp- black.	1927	67	1,553	2,047	6,571	14,262	7,691	8,065								
	1925	66	1,505	1,722	5,655	14,565	8,910	7,289								
	1914	27	339	231	686	1,464	778	1,786								
Candles.....	1927	17	709	761	2,959	6,531	3,392	996								
	1925	20	626	673	2,786	5,114	2,328	922								
	1914	15	387	183	1,119	1,731	612	369								
Chemicals, not else- where classified <sup>24</sup>	1927	457	50,510	75,261	284,795	548,536	263,741	552,410								
	1925	715	55,694	80,435	271,646	547,003	275,357	524,677								
	1923	736	74,897	99,845	316,901	630,870	313,969	572,892								
	1921	692	46,306	58,024	190,502	390,768	200,266	-----								
	1914	395	32,311	22,066	89,451	158,054	68,603	267,907								
Cleaning and polishing preparations.	1927	341	2,403	2,988	15,220	41,234	26,015	8,485								
	1925	299	2,161	2,660	12,707	34,020	21,313	6,279								
	1914	398	1,239	619	3,896	9,152	5,297	2,543								
Drug grinding.....	1927	25	659	820	5,684	9,205	3,522	4,662								
	1925	22	622	710	4,921	8,446	3,525	4,389								
	1914	29	1,059	583	5,215	8,080	2,865	4,972								
Druggists' preparations.	1927	373	10,138	11,942	40,499	110,309	69,810	15,919								
	1925	370	9,685	11,078	36,064	95,420	59,356	12,553								
	1914	416	9,277	4,755	22,935	48,010	25,075	8,368								
Patent and proprietary medicines and com- pounds.	1927	1,282	15,071	16,667	84,641	278,243	193,602	34,082								
	1925	1,279	14,802	15,592	84,790	247,564	162,774	33,840								
	1923	1,363	17,353	16,915	88,802	237,494	148,692	29,998								
	1921	1,436	13,800	13,864	69,571	175,898	106,327	-----								
	1914	2,903	13,328	6,675	35,940	102,463	66,523	18,326								
Perfumery, cosmetics, and toilet prepara- tions	1927	705	10,463	10,965	52,765	161,246	108,480	10,431								
	1925	594	8,714	8,537	46,983	129,510	82,578	7,381								
	1914	496	2,897	1,280	7,465	16,899	9,434	1,815								
Tanning materials, natural dyestuffs, mordants and assist- ants, and sizes.	1927	122	2,414	2,971	23,074	35,677	12,603	29,172								
	1925	125	2,495	2,987	22,763	34,784	12,021	32,634								
	1914	112	2,839	1,613	13,238	20,620	7,382	23,288								
Fertilizers.....	1927	621	18,612	17,650	138,143	190,385	52,242	156,274								
	1925	587	19,644	17,743	137,808	206,773	68,965	152,193								
	1923	573	18,572	16,365	127,980	183,089	55,109	161,774								
	1921	588	16,898	16,026	144,978	180,375	35,397	-----								
	1914	784	22,815	10,532	107,955	153,196	45,241	113,923								
Compressed and lique- fied gases. <sup>24</sup>	1927	313	3,212	4,948	11,749	50,547	38,799	70,489								
Glue and gelatin.....	1927	61	3,226	4,524	19,228	31,196	11,973	24,763								
	1925	55	3,325	3,976	15,338	25,764	10,426	22,807								
	1914	57	3,129	1,854	9,368	13,733	4,365	13,289								
Mucilage, paste, and other adhesives, not elsewhere classified. <sup>25</sup>	1927	80	502	679	4,270	7,945	3,675	2,219								
	1925	84	561	766	5,563	9,853	4,291	2,574								
	1914	127	700	399	3,338	5,695	2,357	2,311								
Grease and tallow, not including lubricating greases.	1927	247	5,052	7,403	38,272	56,280	18,008	34,069								
	1925	263	5,303	7,508	33,713	51,442	17,729	30,840								
	1914	369	5,106	3,512	17,061	24,901	7,840	17,935								

For footnotes see p. 814.



## No. 797.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Cen- sus year	Num- ber of estab- lish- ments	Wage earn- ers (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manu- facture	Horse- power
				In thousands of dollars				
CHEMICALS, ETC.— Continued								
Lubricating greases not made in petroleum refineries	1927 1925 1914	45 53 77	568 607 476	799 820 282	6,314 6,796 2,767	11,656 13,239 4,919	5,342 6,443 2,152	3,181 3,867 2,595
Ink, printing-----	1927 1925 1914	123 109 70	2,288 2,150 1,391	3,665 3,346 1,064	16,054 16,253 6,806	37,734 34,753 13,830	21,680 18,501 7,024	18,901 17,041 7,648
Ink, writing-----	1927 1925 1914	24 28 54	491 524 512	576 596 263	2,209 2,424 1,236	5,342 6,084 2,784	3,133 3,660 1,548	743 700 561
Alcohol, ethyl <sup>26</sup> -----	1927 1925 1914	28 31 434	1,180 1,395 6,295	1,705 1,838 3,994	19,310 38,564 40,997	33,971 57,706 206,779	14,661 19,141 165,782	7,261 10,288 51,971
Liquors, malt <sup>27</sup> -----	1921 1919 1914	531 729 1,250	18,551 34,259 62,070	29,366 45,171 53,244	55,016 94,792 129,724	122,050 379,905 442,149	67,034 285,113 312,425	----- 322,130 405,049
Liquors, vinous-----	1927 1925 1914	13 27 318	150 265 2,292	177 262 1,194	1,206 1,765 9,489	2,693 3,436 16,618	1,487 1,671 7,129	999 1,499 9,339
Paints and varnishes---	1927 1925 1923 1921 1914	1,006 923 826 804 800	28,061 25,490 22,818 18,015 16,083	40,185 35,420 29,871 23,293 10,180	307,724 293,943 248,955 171,398 88,465	519,010 470,736 404,135 274,310 145,624	211,285 176,793 155,180 102,912 57,159	163,187 143,111 114,281 ----- 67,568
Rayon <sup>28</sup> -----	1927 1925	19 14	26,341 19,128	28,649 22,976	25,748 18,478	109,888 88,061	84,141 69,583	122,406 66,966
Salt-----	1927 1925 1914	58 70 98	5,961 6,308 5,089	7,117 7,261 3,041	14,664 13,849 6,273	34,329 34,253 14,070	19,665 20,404 7,797	55,928 54,647 29,007
Soap-----	1927 1925 1923 1921 1914	266 272 270 283 371	13,432 15,406 17,002 16,558 14,172	19,716 18,526 20,777 18,865 8,088	172,244 184,874 173,546 150,356 88,867	287,060 278,273 276,403 240,195 127,942	114,816 93,400 102,857 89,839 39,075	62,025 56,697 74,820 ----- 34,105
Sulphure, nitric, and mixed acids	1927 1925 1914	35 36 32	1,837 2,196 3,064	3,014 3,103 2,213	11,882 11,066 6,734	23,555 23,307 15,215	11,672 12,241 8,481	23,875 22,120 21,002
Wood distillation and charcoal manufac- ture.	1927 1925 1914	88 106 142	4,537 4,217 3,010	4,739 4,305 1,646	15,423 15,824 6,729	27,630 25,283 10,284	12,208 9,459 3,555	16,833 17,907 10,179
Animal, vege- table, and com- pounded oils, total.	1927 1925 1923 1921 1914	781 773 773 910 1,193	24,762 22,700 19,817 22,071 25,596	23,818 20,946 17,390 19,621 11,113	393,895 455,642 386,662 330,416 248,517	495,913 559,856 460,951 384,954 297,363	102,018 104,214 74,290 54,538 48,846	320,217 283,827 265,235 ----- 277,740
Oil, cake, and meal, cottonseed	1927 1925 1923 1921 1914	547 535 511 610 882	18,434 16,215 12,745 16,163 21,810	14,259 11,412 7,908 12,340 8,490	220,038 244,315 197,515 194,864 180,976	276,338 295,685 226,388 217,225 212,127	56,300 51,369 28,873 22,361 31,151	270,500 239,005 ----- 249,781
Oils, essential-----	1927 1925 1914	14 14 105	169 178 249	258 4,363 1,565	3,427 5,882 2,314	4,642 5,882 2,314	1,215 1,519 749	758 1,064 1,959
Oil, cake, and meal, linseed.	1927 1925 1914	33 33 25	2,718 2,692 1,488	4,325 4,290 1,127	97,750 121,762 39,555	111,544 140,514 44,882	13,793 18,751 5,327	28,273 25,869 15,511
Oils, not elsewhere classified.	1927 1925 1914	187 191 181	3,441 3,615 2,049	4,977 4,963 1,363	72,678 85,202 26,420	103,388 117,776 38,040	30,710 32,574 11,620	20,686 17,989 10,489

For footnotes see p. 814.

## No. 797.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Cen- sus year	Num- ber of estab- lish- ments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manu- facture	Horse- power
PRODUCTS OF PETROLEUM AND COAL								
Coke, not including gas-house coke.	1927	171	21,082	34,168	286,729	382,013	95,284	451,874
	1925	237	23,191	36,762	277,751	378,634	100,883	409,552
	1923	262	28,364	48,108	354,030	516,923	162,892	332,560
	1921	176	16,070	23,833	188,791	221,313	52,522	-----
	1914	231	21,107	14,289	69,138	99,275	30,137	117,127
Fuel, manufactured----	1927	20	274	446	4,873	7,203	2,330	9,594
	1925	14	246	369	3,936	6,019	2,084	6,573
	1914	14	141	112	609	863	254	3,444
Gas, manufactured, illuminating and heating.	1927	828	48,497	68,356	211,786	516,705	304,920	496,014
	1925	919	46,998	67,436	178,423	455,460	277,037	428,132
	1923	939	42,282	59,600	191,120	450,097	258,977	358,605
	1921	954	34,956	53,306	202,253	411,196	208,942	-----
	1914	1,284	43,792	26,802	76,779	220,238	143,459	213,303
Petroleum refining----	1927	354	71,234	113,717	1,752,997	2,142,649	389,651	552,651
	1925	359	65,324	104,645	1,889,678	2,376,657	486,979	393,753
	1923	382	66,717	103,834	1,425,053	1,793,700	368,647	349,154
	1921	366	63,189	102,294	1,382,170	1,727,440	345,270	-----
	1914	176	25,366	19,397	325,265	396,361	71,097	128,190
RUBBER PRODUCTS								
Boots and shoes, rubber.	1927	22	26,848	32,079	43,373	124,608	81,235	68,359
	1925	23	24,999	28,058	40,566	115,935	75,368	59,413
	1914	23	18,687	9,986	23,956	53,822	29,866	24,561
Rubber tires and inner tubes <sup>28</sup>	1927	109	78,256	120,064	499,221	869,688	370,467	451,724
	1925	126	81,640	120,614	559,940	925,002	365,062	403,227
	1923	160	73,963	108,623	365,165	644,194	279,029	370,551
Rubber goods, other than tires, inner tubes, and boots and shoes. <sup>29</sup>	1927	385	36,893	45,931	117,777	230,781	113,005	270,539
	1925	381	35,230	42,613	121,224	219,869	98,645	197,051
	1923	344	34,470	39,790	90,729	182,584	91,855	178,899
	1921	294	23,889	25,131	54,192	114,747	60,555	-----
	1914	319	55,335	34,181	139,079	247,172	108,093	174,681
LEATHER AND ITS FINISHED PRODUCTS								
Leather, tanned, curried, and finished <sup>30</sup>	1927	494	52,924	67,887	331,985	494,256	162,271	220,530
	1925	531	52,263	65,834	296,953	452,186	155,233	215,678
	1923	597	59,703	73,784	321,750	488,898	167,148	230,187
	1921	608	48,955	57,741	277,725	383,365	105,640	-----
	1914	741	55,936	31,915	284,245	367,202	82,957	171,734
Finished products of leather, total. <sup>31</sup>	1927	3,771	263,067	296,560	756,656	1,375,049	618,393	199,061
	1925	3,712	261,762	289,512	715,927	1,311,523	595,596	197,495
	1923	4,272	285,747	315,712	775,065	1,404,735	629,670	190,277
	1921	4,205	231,116	256,671	656,673	1,160,821	504,148	-----
	1914	6,017	251,124	137,443	468,890	737,393	268,503	139,460
Belting, leather-----	1927	173	2,164	2,925	16,185	27,266	11,080	7,188
	1925	168	2,644	3,505	18,868	31,811	12,943	6,889
	1914	151	2,951	2,070	15,480	23,036	7,556	7,385
Boots and shoes, other than rubber-----	1927	1,357	203,110	225,090	494,553	944,714	450,161	138,706
	1925	1,460	206,992	225,788	481,632	925,383	443,751	139,569
	1923	1,606	225,216	250,346	527,457	1,000,078	472,621	128,550
	1921	1,505	183,502	204,954	478,432	867,476	389,044	-----
	1914	1,355	191,555	105,695	310,357	501,760	191,403	95,966
Boot and shoe cut stock, not made in boot and shoe factories. <sup>30</sup>	1927	201	8,611	9,354	97,966	121,022	23,056	13,718
	1925	245	7,977	8,906	75,326	94,048	18,721	14,859
	1914	236	7,819	4,052	51,451	59,965	8,514	6,018

For footnotes see p. 814.

## No. 797.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Cen- sus year	Num- ber of estab- lish- ments	Wage earn- ers (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manu- facture	Horse- power
LEATHER, ETC.—Con.								
Boot and shoe findings, not made in boot and shoe factories.	1927	379	9,950	11,202	31,862	57,433	25,571	18,021
	1925	326	8,605	9,695	29,248	52,084	22,816	15,419
	1914	369	6,714	3,226	20,304	28,303	7,999	5,436
Gloves and mittens, leather. <sup>21</sup>	1927	232	9,106	8,814	19,276	36,662	17,386	2,603
	1925	226	7,115	6,915	17,779	33,293	15,514	3,265
	1914	352	10,668	4,558	12,171	21,614	9,443	3,308
Pocketbooks, purses, and cardcases.	1927	257	8,570	13,170	20,619	57,345	27,726	1,725
	1925	190	6,826	9,022	22,442	43,105	20,663	1,356
	1914	64	1,466	702	1,784	3,351	1,567	242
Saddlery and harness--	1927	264	4,023	4,541	16,526	27,356	10,830	4,908
	1925	258	4,570	5,060	18,776	30,084	11,308	5,021
	1914	2,551	12,969	7,996	33,086	53,559	20,473	10,362
Trunks, suitcases, and bags.	1927	495	10,345	13,085	29,128	59,959	30,830	9,001
	1925	475	10,348	13,226	31,382	61,224	29,842	7,893
	1914	561	9,911	5,540	13,626	26,472	12,846	7,510
Leather goods, not else- where classified.	1927	413	7,188	8,379	21,540	43,292	21,752	3,651
	1925	364	6,685	7,396	20,474	40,512	20,038	3,223
	1914	378	7,071	3,604	10,632	19,334	8,702	3,233
STONE, CLAY, AND GLASS PRODUCTS								
Industries using stone as a ma- terial, total.	1927	5,156	126,569	187,879	303,632	787,843	484,211	1,672,639
	1925	4,852	123,699	178,644	300,793	779,081	478,239	1,365,906
	1923	4,621	118,560	167,466	273,369	697,461	424,092	1,071,210
	1921	4,752	84,565	109,834	212,557	464,613	252,056	-----
	1914	9,530	115,642	74,637	119,163	277,562	158,399	808,040
Concrete products-----	1927	2,330	17,808	24,898	33,913	93,259	59,346	54,342
	1925	1,666	14,722	20,761	27,792	75,214	47,422	38,361
	1914	3,548	10,255	6,308	8,904	21,934	13,030	20,274
Marble, granite, slate, and other stone prod- ucts	1927	1,978	40,474	68,491	66,328	201,181	134,853	295,174
	1925	2,356	36,575	59,593	66,976	193,047	126,071	240,297
	1914	4,901	54,891	37,960	37,802	107,055	69,253	206,115
Lime-----	1927	260	10,903	12,191	17,269	41,587	24,318	84,195
	1925	283	12,095	14,002	20,049	50,736	30,687	87,871
	1914	627	12,429	6,040	7,558	18,391	10,833	39,079
Cement-----	1927	161	36,322	53,111	120,012	293,565	173,553	1,069,390
	1925	145	38,437	53,912	114,169	300,895	186,726	871,650
	1923	133	35,091	49,708	100,767	264,099	163,332	642,840
	1921	125	26,231	34,416	102,360	203,627	101,267	-----
	1914	133	27,916	18,192	51,987	101,756	49,769	490,402
Wall plaster, wall board, and floor com- position	1927	221	10,014	14,412	31,998	83,856	51,858	116,230
	1925	222	10,978	16,078	39,553	90,957	51,404	82,863
	1914	165	5,389	3,453	7,993	16,544	8,551	36,599
Asbestos products, other than steam packing, or pipe and boiler covering. <sup>22</sup>	1927	62	6,337	8,376	21,518	44,156	22,639	26,525
	1925	49	6,129	7,692	19,225	36,274	17,049	22,918
	1923	56	6,078	6,640	20,027	36,820	16,793	26,855
	1921	40	2,026	1,948	6,076	13,080	6,954	-----
	1914	32	962	484	1,360	2,814	1,454	2,861
Emery wheels and other abrasive and polishing appliances.	1927	68	3,261	4,608	10,840	24,182	13,342	13,464
	1925	68	3,352	4,770	11,104	25,730	14,626	11,654
	1914	49	2,387	1,491	3,006	7,130	4,124	4,080
Grindstones, pulp stones, and mill- stones. <sup>24</sup>	1927	23	468	560	258	1,621	1,363	3,585
	1925	21	454	560	292	1,631	1,339	3,005
	1914	14	686	323	116	684	568	2,160
Hones, whetstones, and similar products.	1927	8	192	182	337	819	481	1,136
	1925	6	156	158	394	787	393	891
	1914	16	170	64	87	260	173	864

For footnotes see p. 814.

## No. 797.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horse-power
In thousands of dollars								
STONE, CLAY, ETC.—Continued								
Sand-lime brick.....	1927	45	790	1,051	1,158	3,616	2,458	8,598
	1925	41	801	1,119	1,238	3,769	2,522	6,396
	1914	45	557	322	350	994	644	5,006
Industries using clay and other earths as materials, total.	1927	2,598	148,850	182,466	156,264	488,559	332,295	707,248
	1925	2,688	150,953	189,012	155,937	502,770	346,833	700,775
	1923	2,734	151,176	185,282	155,034	497,812	342,778	613,862
	1921	2,624	106,627	120,200	108,774	316,056	207,282	-----
	1914	4,095	134,429	76,153	62,481	191,418	128,937	513,164
Clay products (other than pottery) and nonclay refractories <sup>35</sup>	1927	1,846	100,972	121,967	99,870	319,908	220,038	529,581
	1825	1,939	102,777	127,127	100,013	333,730	233,717	517,204
	1923	1,983	102,723	123,773	103,318	333,416	230,098	480,576
	1921	1,881	68,759	73,726	68,276	194,329	126,053	-----
	1914	3,239	100,182	54,907	42,723	135,921	93,198	442,480
Pottery, including porcelain ware.	1927	316	36,667	45,150	33,581	110,597	77,017	54,879
	1925	309	36,536	46,769	33,926	111,078	77,152	50,141
	1914	350	26,705	16,666	12,032	36,943	24,911	22,337
China firing and decorating, not done in potteries.	1927	31	366	428	682	1,692	1,010	43
	1925	31	333	386	672	1,590	918	38
	1914	51	295	160	330	727	397	22
Crucibles.....	1927	11	258	344	772	1,982	1,210	1,688
	1925	11	284	381	755	2,092	1,337	1,476
	1914	10	302	171	1,270	1,886	616	875
Graphite, ground and refined	1927	13	289	341	1,319	2,923	1,612	3,011
	1925	11	228	278	1,328	2,569	1,241	2,927
	1914	11	250	181	723	1,724	1,001	2,602
Minerals and earths, ground or otherwise treated.	1927	245	8,270	9,833	17,625	41,260	23,635	116,909
	1925	250	8,762	9,882	17,165	42,381	25,216	127,649
	1914	244	4,707	2,485	4,561	10,307	5,746	44,067
Statuary and art goods, factory product	1927	136	2,028	4,404	2,415	10,187	7,772	1,137
	1925	137	2,033	4,188	2,078	9,330	7,251	1,340
	1914	190	1,988	1,583	842	3,910	3,068	781
Glass and manufactures of glass, total.	1927	919	74,598	93,928	134,879	336,147	201,268	329,244
	1925	938	78,384	99,356	146,696	358,850	212,154	281,476
	1923	962	81,956	100,819	145,070	367,848	222,773	250,982
	1921	971	61,798	77,031	106,926	252,420	145,494	-----
	1914	1,165	85,753	55,294	59,173	149,720	90,547	172,772
Glass.....	1927	269	65,825	81,353	109,911	282,994	172,483	318,298
	1925	310	69,371	86,736	113,652	295,959	182,307	271,639
	1923	333	73,335	89,898	113,170	309,353	196,183	240,528
	1921	329	54,748	68,224	86,036	213,471	127,435	-----
	1914	348	74,502	48,656	46,016	123,085	77,069	162,934
Glass cutting, staining, and ornamenting.	1927	400	4,465	6,215	8,779	22,328	13,549	3,316
	1925	410	4,860	6,517	13,331	27,943	14,612	3,531
	1914	685	8,067	4,670	7,143	16,446	9,303	5,358
Mirrors, framed and unframed.	1927	250	4,308	6,361	16,189	31,425	15,236	7,630
	1925	218	4,153	6,104	19,713	34,949	15,235	6,306
	1914	182	3,184	1,968	6,014	10,189	4,175	4,480
IRON AND STEEL AND PRODUCTS, EXCEPT MACHINERY								
Crude iron and steel and rolled products, total.	1927	602	389,270	645,534	2,269,210	3,488,744	1,219,534	6,781,058
	1925	595	399,914	660,297	2,429,378	3,711,354	1,281,976	6,143,927
	1923	658	424,913	666,760	2,872,028	4,161,938	1,289,910	5,999,941
	1921	628	254,213	354,357	1,366,175	1,901,430	535,255	-----
	1914	587	278,072	210,923	855,406	1,286,319	380,913	3,925,869

## No. 797.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horse-power								
In thousands of dollars																
<b>IRON AND STEEL, ETC.—Continued</b>																
Iron and steel Blast furnaces.	1927	116	27,958	44,258	579,555	708,904	129,349	( <sup>39</sup> )								
	1925	122	29,188	45,312	617,417	765,286	147,869	1,380,394								
	1923	169	36,712	58,936	827,630	1,007,613	179,983	1,686,419								
	1921	134	18,698	29,370	361,050	419,771	58,721	-----								
	1914	160	29,356	22,781	264,580	317,654	53,074	1,222,273								
Iron and steel: Steel works and rolling mills	1927	486	361,312	601,275	1,689,655	2,779,840	1,090,185	<sup>86</sup> 6,781,058								
	1925	473	370,726	614,985	1,811,961	2,946,068	1,134,107	4,763,533								
	1923	489	388,201	637,825	2,044,398	3,154,325	1,109,927	4,313,522								
	1921	494	235,515	324,987	1,005,125	1,481,659	476,534	-----								
	1914	427	248,716	188,142	590,826	918,665	327,839	2,703,596								
Other iron and steel products, total.	1927	5,744	446,231	618,872	1,275,698	2,710,508	1,434,810	1,541,979								
	1925	5,473	451,356	624,042	1,304,972	2,748,773	1,443,801	1,375,072								
	1923	5,700	467,747	627,827	1,280,890	2,666,903	1,386,013	1,259,334								
	1921	5,627	317,585	376,829	774,169	1,554,960	780,787	-----								
	1914	5,744	340,277	211,065	460,404	901,309	440,905	661,947								
Bolts, nuts, washers, and rivets, not made in rolling mills <sup>37</sup>	1927	115	13,614	17,324	38,302	75,876	37,574	69,403								
	1925	127	13,907	17,942	38,507	75,926	37,419	54,767								
	1914	102	10,658	5,961	12,913	23,403	10,490	28,885								
Cast-iron pipe-----	1927	82	22,892	25,982	48,225	95,089	46,864	63,196								
	1925	77	23,033	27,438	48,847	100,919	52,073	54,820								
	1914	59	12,557	7,076	16,980	26,659	9,729	25,864								
Doors, shutters, and window sash and frames <sup>37</sup>	1927	117	8,050	15,564	25,602	65,280	29,678	20,626								
	1925	92	6,791	12,899	21,628	50,078	28,450	16,699								
	1914	43	1,985	1,538	1,966	5,184	3,188	3,170								
Forgings, not made in steel works or rolling mills <sup>37</sup>	1927	209	15,399	23,258	51,635	103,672	52,037	126,887								
	1925	218	20,290	31,313	68,081	134,511	66,429	120,014								
	1914	191	10,689	7,487	14,611	28,961	14,350	36,543								
Horseshoes, not made in rolling mills. <sup>37</sup>	1927	10	195	282	467	1,363	897	1,088								
	1925	9	193	275	496	1,408	912	1,042								
	1914	22	588	362	690	1,786	1,096	1,984								
Nails, spikes, etc., not made in rolling mills <sup>37</sup>	1927	56	2,100	2,670	5,157	11,753	6,597	8,073								
	1925	58	2,227	2,610	5,646	12,318	6,673	8,102								
	1914	64	2,644	1,508	3,594	7,199	3,605	8,135								
Springs, steel Railway, vehicle, heavy machine, etc., not made in rolling mills <sup>37</sup>	1927	94	5,753	8,913	24,599	43,821	19,222	22,263								
	1925	98	5,897	8,989	23,609	44,469	20,800	22,492								
	1914	84	3,703	2,602	6,143	11,595	5,452	8,025								
Steel barrels, kegs, and drums <sup>37, 38</sup>	1927	39	2,853	3,986	14,736	24,105	9,369	11,229								
	1925	33	2,021	2,914	12,743	19,928	7,185	7,739								
	1923	39	2,668	3,363	14,818	23,249	8,431	7,907								
	1921	31	2,013	2,323	9,267	14,325	5,258	-----								
Structural and ornamental iron work, not made in rolling mills <sup>37</sup>	1927	1,284	52,392	84,578	243,446	440,376	196,930	251,670								
	1925	1,136	48,341	77,411	237,653	420,998	183,345	211,732								
	1923	1,056	51,691	80,833	225,487	406,117	180,630	205,518								
	1921	1,021	32,897	47,455	151,011	250,086	99,075	-----								
	1914	1,285	47,167	33,429	87,622	159,378	71,756	109,068								
Iron and steel, processed. <sup>37, 38, 39</sup>	1927	33	231	392	510	1,443	934	1,716								
	1925	26	306	557	643	2,114	1,471	1,870								
	1923	265	1,376	2,406	2,925	9,112	6,187	6,209								
Wrought pipe, not made in rolling mills. <sup>37</sup>	1927	44	11,083	16,066	55,779	98,186	42,407	53,938								
	1925	42	10,871	17,157	59,142	94,695	35,553	41,306								
	1914	36	8,845	5,750	26,296	37,655	11,359	17,532								
Firearms-----	1927	20	6,130	7,934	5,048	19,452	14,405	15,747								
	1925	20	4,470	5,584	3,174	15,179	12,005	14,580								
	1914	29	7,064	5,067	2,670	10,544	7,874	7,374								
Galvanizing and other coating, not done in rolling mills.	1927	59	953	1,449	3,722	6,951	3,228	2,657								
	1925	54	804	1,128	2,892	5,933	3,041	1,881								
	1914	48	1,580	922	6,293	8,480	2,187	2,385								

For footnotes see p 814

## No. 797.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Cen- sus year	Num- ber of estab- lish- ments	Wage earn- ers (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manu- facture	Horse- power
IRON AND STEEL, ETC.—Continued								
Hardware, not else- where classified.	1927	485	47,834	60,827	71,877	208,254	136,377	99,624
	1925	476	52,349	65,562	77,503	225,053	147,550	98,278
	1923	473	52,205	63,471	80,598	215,960	135,362	84,006
	1921	456	35,228	36,240	41,520	120,600	79,080	-----
	1914	597	43,724	23,831	30,861	77,360	46,499	56,839
Pens, steel and brass...	1927	6	534	594	293	1,658	1,365	307
	1925	5	487	498	265	1,446	1,180	273
	1914	5	573	243	117	514	397	244
Plumbers' supplies, not including pipe or marble, slate, and por- celain sanitary ware	1927	231	29,245	40,212	55,633	148,879	93,246	90,293
	1925	239	33,280	46,954	63,610	167,878	104,268	84,534
	1914	260	18,479	11,703	18,670	43,386	24,716	28,112
Safes and vaults.....	1927	25	3,386	4,404	7,226	18,440	11,213	9,688
	1925	35	3,865	5,398	8,266	23,044	14,778	10,054
	1914	39	2,972	1,860	2,646	7,257	4,611	8,406
Screw-machine prod- ucts	1927	205	9,967	13,778	20,895	48,138	27,243	31,835
	1925	193	8,987	12,669	18,788	43,779	24,991	30,514
	1914	66	3,643	2,310	3,058	7,248	4,190	7,848
Screws, wood.....	1927	13	3,723	4,277	5,015	11,882	6,867	11,633
	1925	12	5,084	5,525	6,288	15,836	9,548	11,970
	1914	12	4,446	1,951	2,350	6,217	3,867	8,044
Steam fittings and steam and hot-water heating apparatus.	1927	232	42,893	64,851	76,835	225,158	148,323	132,723
	1925	225	43,260	63,979	77,357	228,930	151,573	109,313
	1923	236	44,141	64,807	83,297	221,954	138,657	91,085
	1921	274	30,808	39,596	50,213	127,367	77,154	-----
	1914	295	26,388	16,738	26,921	63,922	37,001	38,362
Stoves and ranges (other than electric), and warm-air fur- naces	1927	564	45,180	64,327	93,096	258,286	165,190	100,009
	1925	564	46,514	66,299	95,873	264,303	168,430	94,126
	1914	551	37,325	25,865	33,955	89,390	55,435	49,055
Tinware, not elsewhere classified. <sup>10</sup>	1927	236	29,721	35,001	169,421	253,479	84,057	64,005
	1925	221	29,901	34,392	175,779	260,360	84,581	48,728
	1923	241	30,511	32,816	135,980	215,971	79,991	41,282
	1921	244	22,711	24,595	108,748	168,305	59,557	-----
	1914	294	22,584	12,217	53,841	81,931	28,090	17,863
Tools and cutlery								
Cutlery (not includ- ing silver and plated cutlery) and edge tools	1927	230	17,178	20,270	19,126	76,688	57,562	43,419
	1925	211	16,407	20,226	20,562	80,263	59,701	51,673
	1914	252	16,561	9,076	8,186	25,541	17,355	34,665
Files.....	1927	36	3,948	5,145	3,136	12,974	9,838	10,979
	1925	38	4,209	5,393	3,518	13,541	10,023	11,534
	1914	48	4,349	2,185	1,595	5,608	4,013	8,771
Saws.....	1927	77	4,182	5,754	7,674	22,628	14,954	14,526
	1925	71	4,710	5,873	8,224	24,709	16,485	14,287
	1914	100	4,560	3,020	4,714	12,517	7,803	11,744
Other tools, not in- cluding machine tools.	1927	657	25,232	34,465	37,057	117,431	80,374	85,963
	1925	663	25,340	34,294	39,023	121,263	82,240	78,686
	1914	661	16,866	10,217	12,235	33,893	21,658	37,243
Vault, sidewalk, and floor lights, coal-hole covers, and ventilat- ing equipment <sup>11</sup>	1923	24	296	446	1,213	2,991	1,778	254
	1914	45	601	457	959	2,051	1,092	486
Wire, drawn from pur- chased bars or rods (excludes steel works and rolling mills).	1927	73	19,866	30,038	128,092	190,710	62,617	152,574
	1925	68	18,544	26,928	127,251	184,463	57,212	138,115
	1914	54	17,600	11,021	56,424	81,841	25,417	83,900
Wirework, not else- where classified.	1927	512	21,697	26,439	63,093	128,536	65,443	45,858
	1925	462	19,268	23,835	59,604	115,429	55,825	35,943
	1914	552	12,126	6,719	24,114	41,789	17,675	21,405

## No. 797.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Cen- sus year	Num- ber of estab- lish- ments	Wage earn- ers (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manu- facture	Horse- power
In thousands of dollars								
NONFERROUS MET- ALS AND THEIR PRODUCTS.								
Products for re- manufacture, total. <sup>1</sup>	1927	1,336	80,721	116,243	458,029	705,126	247,097	483,832
	1925	1,267	79,488	113,574	486,301	721,386	235,085	431,605
	1923	1,266	83,359	111,866	448,267	679,182	230,915	372,603
	1921	1,125	51,668	60,085	186,949	297,455	110,506	-----
	1914	1,165	46,540	28,803	151,609	208,407	56,799	139,761
Aluminum manufac- tures.	1927	139	14,798	20,892	79,839	123,557	43,719	71,907
	1925	127	14,353	19,753	84,985	127,831	42,846	62,366
	1914	37	4,614	2,611	14,421	19,598	5,177	12,297
Babbitt metal, white metal, type metal, and solder.	1927	64	1,087	1,534	36,784	44,673	7,889	3,597
	1925	67	1,465	2,221	44,081	50,650	6,569	3,907
	1914	109	1,035	701	15,652	19,180	3,528	2,881
Brass, bronze, and other nonferrous al- loys, and manufac- tures of these alloys and of copper, not elsewhere classified. <sup>42</sup>	1927	1,106	64,187	92,894	327,605	519,892	192,288	404,512
	1925	1,044	62,942	90,613	337,641	519,725	182,084	361,242
	1923	1,035	64,713	88,839	331,757	511,470	179,713	305,839
	1921	911	39,830	46,260	130,627	214,904	84,277	-----
	1914	992	40,306	25,084	115,487	162,199	46,712	121,974
Lead: Bar, pipe, and sheet.	1927	27	649	923	13,802	17,003	3,202	3,816
	1925	29	728	986	19,594	23,180	3,586	4,090
	1914	27	585	407	6,048	7,431	1,383	2,609
Smelting and re- fining, total. <sup>1</sup>	1927	228	34,087	50,515	935,014	1,086,153	151,138	481,441
	1925	238	37,194	54,793	1,070,193	1,244,506	174,313	484,012
	1923	205	37,634	55,095	924,228	1,060,440	136,213	460,321
	1921	222	20,999	27,807	419,419	491,156	71,737	-----
	1914	250	37,774	31,258	629,704	737,629	107,924	273,551
Primary, total-----	1927	69	30,510	44,800	807,242	942,735	135,493	465,164
	1925	71	32,992	47,948	912,064	1,067,125	155,061	460,096
	1923	84	34,889	51,123	825,549	947,352	121,803	444,903
	1921	80	18,580	24,401	364,277	422,972	58,694	-----
	1914	88	34,733	28,983	572,744	669,139	96,395	261,419
Copper-----	1927	26	13,924	20,582	527,764	609,299	81,535	323,799
	1925	26	15,688	22,642	573,190	665,177	91,986	326,509
	1923	29	16,777	25,459	554,100	625,433	71,333	332,943
	1921	28	8,293	11,199	205,904	234,895	28,991	-----
	1914	37	17,731	16,149	379,157	444,022	64,865	194,980
Lead-----	1927	18	5,398	7,690	202,859	225,138	22,279	48,298
	1925	17	6,115	9,002	254,881	283,043	28,162	47,219
	1923	20	6,194	8,768	207,315	227,735	20,420	42,377
	1921	23	4,509	5,958	134,061	150,594	16,533	-----
	1914	22	7,885	6,134	154,015	171,579	17,564	29,734
Zinc-----	1927	25	11,188	16,528	76,619	108,298	31,679	93,067
	1925	28	11,289	16,305	83,992	118,906	34,913	86,368
	1914	29	9,617	6,700	39,573	53,538	13,965	36,705
Secondary total-----	1927	159	3,577	5,715	127,772	143,418	15,646	16,277
	1925	167	4,202	6,845	158,130	177,381	19,251	23,916
	1914	162	3,041	2,275	56,960	68,490	11,530	12,132
Gold, silver, and platinum, reducing and refining, not from ore	1927	67	801	1,435	58,877	62,647	3,770	4,288
	1925	65	1,258	2,166	88,867	95,243	6,376	9,676
	1914	78	456	391	25,709	28,588	2,879	2,061
Metals other than gold, silver, or plat- inum, not from the ore.	1927	102	2,776	4,280	68,894	80,771	11,876	11,989
	1925	102	2,944	4,680	69,263	82,138	12,875	14,240
	1914	84	2,585	1,884	31,251	39,902	8,651	10,071
Metals not elsewhere classified. <sup>43</sup>	1923	4	257	387	4,541	5,382	841	1,144
	1921	5	434	748	4,055	7,060	3,005	-----
	1919	13	2,041	2,963	14,957	20,074	5,117	11,700

For footnotes see pp 813 and 814.

## No. 797.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horse-power
In thousands of dollars								
NONFERROUS METALS, ETC.—Con.								
Manufactures of metals. <sup>1</sup>	1927	5,094	155,737	213,608	387,315	877,418	490,103	254,325
	1925	5,410	158,610	212,415	390,283	867,878	477,595	242,869
	1923	5,961	171,960	221,202	401,978	882,975	480,997	235,789
	1921	6,454	139,687	168,359	279,469	618,264	338,795	-----
	1914	8,293	153,932	93,893	182,481	381,894	199,413	136,014
Bells “-----”	1923	9	218	226	328	792	465	426
	1921	9	203	200	277	645	368	-----
	1914	12	445	244	438	970	532	787
Clocks, time-recording devices, and clock movements.	1927	52	9,865	11,751	10,063	38,196	28,133	9,510
	1925	45	7,945	9,238	8,920	29,379	20,459	8,614
	1914	48	6,754	3,653	4,008	11,032	7,024	5,993
Watches and watch movements.	1927	11	12,192	15,090	5,871	32,278	26,407	9,357
	1925	13	13,915	16,557	6,178	36,254	30,076	12,348
	1914	15	12,390	7,524	2,669	14,275	11,606	6,624
Watch and clock materials and parts, except watchcases	1927	17	415	407	315	1,309	994	210
	1925	25	501	480	376	1,363	987	219
	1914	25	670	380	343	1,015	672	621
Watchcases-----	1927	40	3,360	4,326	5,311	13,725	8,414	4,121
	1925	45	3,480	4,463	6,050	14,793	8,743	4,106
	1914	31	3,514	1,938	4,002	7,831	3,829	2,369
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.	1927	1,981	24,527	38,668	98,386	191,129	92,743	35,880
	1925	2,107	24,996	37,825	84,080	175,043	90,963	35,273
	1914	4,527	28,714	20,518	50,174	94,891	44,717	21,275
Fire extinguishers, chemical	1927	26	832	1,192	4,010	8,035	4,025	1,564
	1925	26	842	1,131	4,122	8,037	3,915	1,440
	1914	27	256	200	574	1,298	724	269
Stamped and enameled ware, not elsewhere classified	1927	365	28,594	35,155	65,581	141,793	76,212	66,726
	1925	370	29,704	36,107	77,487	154,096	76,609	64,346
	1914	270	28,731	15,243	32,472	65,121	32,649	34,561
Gas and electric fixtures, lamps, lanterns and reflectors	1927	481	21,030	29,261	55,609	127,802	72,194	31,291
	1925	517	22,334	31,072	57,771	129,698	71,928	30,038
	1914	611	18,047	10,677	22,102	45,378	23,276	18,213
Needles, pins, hooks and eyes, and snap fasteners.	1927	45	5,606	6,098	5,923	20,325	14,402	7,250
	1925	48	5,850	5,856	5,926	18,174	12,248	7,603
	1914	49	5,339	2,507	3,242	7,891	4,649	4,783
Gold and silver, leaf and foil.	1927	77	1,146	1,120	1,721	3,571	1,850	346
	1925	84	1,148	1,113	1,839	3,746	1,907	326
	1914	79	1,135	498	1,452	2,432	980	360
Jewelry-----	1927	1,367	24,116	36,766	76,915	164,865	87,950	17,070
	1925	1,468	23,837	35,177	79,886	166,816	86,931	17,296
	1914	1,914	28,289	18,302	39,116	81,006	41,890	13,862
Pens, gold-----	1927	8	137	198	444	732	288	80
	1925	13	226	299	589	1,115	526	121
	1914	12	246	174	302	642	340	138
Silversmithing and silverware.	1927	82	4,896	7,699	10,915	30,204	19,289	7,493
	1925	93	5,587	8,607	13,106	32,532	19,426	7,770
	1914	108	7,070	4,795	8,275	19,786	11,511	7,899
Plated ware-----	1927	94	11,752	16,142	20,212	56,720	36,508	27,712
	1925	90	11,290	15,236	20,071	54,330	34,259	23,914
	1914	72	8,717	5,001	8,304	18,484	10,180	10,494
Tin and other foils, not including gold and silver, collapsible tubes.	1927	27	3,642	4,002	22,454	32,302	9,848	21,619
	1925	26	3,618	4,001	21,342	30,060	8,719	18,712
	1914	14	1,031	528	3,672	5,068	1,396	2,458
Electroplating-----	1927	419	3,556	5,629	3,335	13,930	10,595	14,090
	1925	449	3,337	5,254	2,541	12,441	9,899	10,743
	1914	479	2,584	1,713	1,336	4,773	3,437	5,308



## No. 797.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horse-power
In thousands of dollars								
<b>MACHINERY, EXCEPT TRANSPORTATION EQUIPMENT</b>								
Agricultural implements	1927	277	33,346	46,415	85,666	202,732	117,066	117,966
	1925	303	28,696	37,388	73,850	169,468	95,618	115,325
	1914	601	48,459	34,593	73,509	164,087	90,578	121,256
Cash registers and calculating machines	1927	41	14,372	21,756	11,132	106,845	95,713	21,954
	1925	41	13,296	21,142	11,166	98,384	87,218	17,616
	1914	52	8,956	6,110	3,992	30,520	26,528	10,619
Electrical machinery, apparatus, and supplies <sup>45</sup>	1927	1,777	241,566	336,239	645,762	1,637,307	991,545	661,168
	1925	1,739	239,921	323,835	636,692	1,540,002	903,310	589,998
	1923	1,671	234,892	305,455	548,627	1,293,002	744,375	480,268
	1921	1,333	161,204	194,242	344,070	833,985	489,915	-----
	1914	1,030	118,078	73,806	154,728	335,170	180,442	226,320
Engines, turbines, and water wheels	1927	215	54,341	84,791	165,203	367,879	202,676	241,788
	1925	220	51,099	73,585	145,784	313,588	167,804	224,194
	1923	249	48,495	70,878	124,543	266,998	142,455	165,187
	1921	296	35,567	52,005	111,698	199,499	87,801	-----
	1914	446	29,657	21,421	31,460	72,121	40,661	62,106
Foundry and machine-shop products, not elsewhere classified <sup>46</sup>	1927	8,318	397,814	591,065	872,790	2,259,794	1,387,004	1,538,856
	1925	8,154	397,838	590,801	883,708	2,232,986	1,349,278	1,424,239
	1923	8,531	448,777	642,431	936,231	2,337,073	1,400,842	1,234,326
	1921	9,013	321,363	412,359	653,364	1,565,527	912,163	-----
	1914	10,640	362,471	244,146	358,122	866,545	508,423	763,821
Gas machines and gas and water meters	1927	58	5,915	8,792	15,591	36,715	21,124	10,427
	1925	61	5,514	7,429	13,038	34,292	21,254	7,375
	1914	123	4,972	3,310	6,118	15,184	9,066	5,681
Machine tools <sup>47</sup> -----	1927	355	35,269	52,366	46,115	159,513	113,398	131,670
	1925	329	30,831	46,711	43,826	144,202	100,375	118,819
	1919	403	53,111	66,179	59,034	212,400	153,366	100,294
Metal working machinery (other than machine tools) <sup>48</sup>	1927	62	6,125	9,958	10,861	31,749	20,887	23,078
	1925	49	5,994	9,221	10,698	31,300	20,692	22,199
Pumps (hand and power) and pumping equipment	1927	278	18,671	27,119	52,765	130,591	77,826	64,763
	1925	253	17,935	25,278	50,328	120,148	69,820	56,470
	1914	183	8,322	5,555	9,459	24,214	14,755	17,141
Refrigerators, mechanical <sup>49</sup>	1927	22	11,285	17,712	42,651	96,514	53,862	40,084
Scales and balances----	1927	60	3,906	5,461	7,454	24,655	17,202	8,766
	1925	71	4,292	5,783	7,349	27,237	19,888	9,771
	1914	83	4,467	2,934	3,174	9,734	6,560	6,187
Sewing machines, cases, and attachments	1927	41	11,938	15,879	16,782	45,222	28,440	41,988
	1925	41	12,121	16,100	18,610	46,298	27,689	27,439
	1914	50	18,007	11,091	10,200	27,238	17,038	24,010
Textile machinery and parts <sup>46</sup>	1927	367	26,154	36,481	36,181	116,921	80,740	64,532
	1925	379	27,869	37,464	39,037	121,653	82,616	61,738
	1923	428	35,672	46,023	49,705	140,661	90,956	56,295
Typewriters and supplies	1927	75	16,681	20,912	15,956	69,112	53,156	17,920
	1925	70	14,969	18,804	15,157	63,080	47,923	15,568
	1914	107	11,091	6,967	5,501	24,500	18,999	10,872
Washing machines, clothes wringers, driers, and ironing machines for domestic use.	1927	75	7,789	10,950	34,528	74,951	40,423	20,697
	1925	82	7,077	9,990	32,748	69,568	36,820	18,028
	1914	111	2,302	1,221	4,149	7,600	3,451	4,898
Windmills and wind-mill towers.	1927	16	1,355	1,882	3,234	7,514	4,281	3,608
	1925	15	1,391	1,830	3,376	7,984	4,608	3,378
	1914	31	1,955	1,252	2,555	5,496	2,941	3,997

For footnotes see p 814.

## No. 797.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Cen- sus year	Num- ber of estab- lish- ments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manu- facture	Horse- power								
In thousands of dollars																
<b>TRANSPORTATION EQUIPMENT</b>																
Motor vehicles, not in- cluding motor cycles.	1927	264	187, 910	321, 664	1, 889, 426	2, 848, 443	959, 017	701, 841								
	1925	297	197, 728	341, 210	2, 108, 192	3, 186, 123	1, 089, 931	509, 758								
	1923	351	241, 356	406, 730	2, 147, 463	3, 163, 328	1, 015, 895	435, 545								
	1921	385	143, 658	221, 974	1, 107, 062	1, 671, 387	564, 325	-----								
	1914	300	79, 307	66, 934	292, 598	503, 230	210, 632	104, 963								
Motor-vehicle bodies and motor-vehicle parts	1927	1, 213	181, 489	291, 291	641, 307	1, 151, 426	510, 120	551, 639								
	1925	1, 358	228, 382	372, 721	862, 721	1, 523, 280	660, 558	662, 253								
	1923	2, 120	168, 530	253, 147	564, 107	1, 013, 113	449, 006	425, 088								
	1921	1, 974	69, 119	96, 779	213, 965	408, 017	194, 052	-----								
	1914	971	47, 785	34, 993	63, 610	129, 601	65, 991	67, 912								
Motor cycles, bicycles, and parts.	1927	29	3, 897	5, 442	10, 174	21, 454	11, 280	10, 753								
	1925	36	4, 193	5, 662	12, 177	24, 258	12, 081	12, 609								
	1914	78	6, 680	4, 739	10, 928	22, 234	11, 306	8, 718								
Carriages, wagons, sleighs, and sleds <sup>40</sup>	1927	117	3, 387	4, 212	10, 648	19, 422	8, 774	18, 207								
	1925	152	4, 833	5, 792	12, 860	24, 935	12, 075	20, 449								
	1923	396	8, 109	9, 319	18, 683	37, 373	18, 690	26, 509								
	1921	837	8, 025	9, 903	16, 884	33, 114	16, 230	-----								
	1914	4, 622	41, 627	26, 697	52, 602	107, 639	55, 037	75, 439								
Carriage, wagon, sleigh, and sled materials	1927	44	764	665	1, 555	3, 041	1, 486	5, 213								
	1925	81	1, 389	1, 216	2, 659	5, 118	2, 459	8, 689								
	1914	456	11, 087	6, 059	13, 516	24, 850	11, 303	38, 195								
Carriages and sleds, children's	1927	89	7, 030	7, 814	13, 895	28, 668	14, 773	10, 309								
	1925	86	6, 826	7, 923	13, 553	30, 174	16, 620	9, 853								
	1914	92	5, 900	3, 181	5, 682	11, 752	6, 070	5, 652								
Aircraft and parts.....	1927	70	4, 422	6, 857	7, 517	21, 162	13, 645	6, 031								
	1925	44	2, 701	4, 222	2, 870	12, 525	9, 655	3, 735								
	1914	16	168	135	134	790	656	195								
Locomotives, not made in railroad repair shops	1927	17	12, 961	17, 048	45, 688	76, 719	31, 031	148, 971								
	1925	18	12, 809	18, 219	41, 717	65, 389	23, 672	114, 209								
	1914	19	17, 391	11, 085	23, 546	43, 374	19, 828	50, 373								
Cars, electric and steam - railroad, not built in railroad repair shops	1927	135	38, 031	60, 625	209, 113	312, 509	103, 396	236, 415								
	1925	141	50, 393	77, 247	266, 054	390, 771	124, 718	243, 934								
	1923	139	80, 590	129, 178	413, 660	604, 351	190, 691	250, 102								
	1921	118	48, 033	70, 945	211, 938	340, 536	128, 598	-----								
	1914	117	58, 128	43, 861	138, 550	205, 271	66, 721	135, 898								
Ship and boat building, steel and wooden, in- cluding repair work.	1927	559	55, 014	87, 081	78, 626	211, 127	132, 501	314, 474								
	1925	565	50, 224	74, 275	66, 299	177, 182	110, 883	303, 470								
	1914	1, 147	44, 489	32, 931	38, 597	88, 682	50, 085	115, 114								
<b>RAILROAD REPAIR SHOPS</b>																
Car and general con- struction and repairs, steam-railroad repair shops	1927	1, 794	397, 088	600, 517	515, 070	1, 205, 191	690, 120	1, 037, 464								
	1925	1, 842	425, 234	619, 834	533, 908	1, 248, 867	714, 959	934, 839								
	1923	1, 801	488, 505	723, 742	599, 377	1, 433, 680	834, 803	735, 635								
	1921	1, 766	385, 006	624, 181	473, 011	1, 180, 030	707, 019	-----								
	1914	1, 862	339, 518	234, 505	243, 829	514, 041	270, 212	433, 904								
Car and general con- struction and repairs, electric-railroad re- pair shops.	1927	515	31, 584	48, 392	30, 421	84, 504	54, 083	73, 357								
	1925	521	32, 521	48, 357	29, 738	83, 812	54, 074	70, 479								
	1914	649	26, 384	18, 645	17, 609	38, 577	20, 968	44, 989								
<b>MISCELLANEOUS INDUSTRIES</b>																
Musical instru- ments and phonographs, total.	1927	431	42, 985	60, 761	90, 159	226, 362	136, 203	102, 105								
	1925	461	46, 980	62, 502	98, 780	231, 687	132, 826	97, 818								
	1923	535	58, 329	75, 396	123, 600	232, 532	158, 931	90, 228								
	1921	600	45, 113	54, 495	94, 988	212, 989	115, 001	-----								
	1914	737	48, 768	30, 855	49, 323	119, 689	70, 365	57, 526								

## No. 797.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Cen- sus year	Num- ber of estab- lish- ments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manu- facture	Horse- power								
In thousands of dollars																
<b>MISCELLANEOUS INDUSTRIES—Contd.</b>																
Musical instruments and materials, not elsewhere classified.	1927	99	4, 018	5, 737	4, 641	17, 892	13, 251	5, 356								
	1925	100	4, 556	6, 520	5, 575	20, 329	14, 754	4, 907								
	1914	241	1, 831	1, 161	1, 023	3, 625	2, 602	1, 765								
Organs and orchestrons	1927	63	2, 770	4, 364	4, 494	15, 439	10, 944	4, 332								
	1925	57	2, 460	3, 610	3, 749	12, 283	8, 534	3, 983								
	1914	85	3, 063	1, 993	2, 660	6, 297	3, 637	3, 666								
Pianos	1927	124	16, 582	23, 891	33, 899	75, 491	41, 592	29, 725								
	1925	142	20, 079	28, 096	49, 296	101, 181	51, 885	26, 912								
	1914	255	23, 877	15, 705	29, 091	62, 775	33, 684	25, 838								
Piano and organ materials.	1927	85	5, 399	6, 594	9, 657	22, 245	12, 587	14, 185								
	1925	94	8, 618	10, 131	15, 294	36, 836	21, 543	15, 794								
	1914	138	10, 616	5, 655	9, 502	19, 876	10, 374	14, 569								
Phonographs	1927	60	14, 216	20, 176	37, 468	95, 296	57, 828	48, 507								
	1925	68	11, 267	14, 145	24, 847	61, 057	36, 210	45, 782								
	1914	18	9, 381	6, 341	7, 048	27, 116	20, 068	11, 688								
Tobacco manufactures, total.	1927	2, 156	129, 299	105, 251	420, 667	1, 163, 768	743, 102	52, 385								
	1925	2, 623	132, 132	111, 558	425, 769	1, 091, 001	665, 232	42, 075								
	1923	3, 672	146, 337	120, 462	515, 865	1, 044, 192	528, 327	43, 515								
	1921	4, 372	149, 985	120, 903	608, 688	1, 048, 490	439, 801	-----								
	1914	13, 951	178, 872	77, 856	207, 134	490, 165	283, 032	34, 756								
Tobacco, Chewing and smoking, and snuff	1927	159	13, 125	10, 661	85, 310	198, 245	112, 934	16, 566								
	1925	178	15, 024	12, 185	94, 419	216, 186	121, 768	17, 541								
	1923	206	16, 301	12, 739	146, 374	222, 966	76, 592	18, 621								
	1921	226	16, 628	12, 742	156, 477	241, 741	85, 264	-----								
	1914	436	25, 980	9, 550	76, 604	175, 281	98, 677	21, 273								
Tobacco: Cigars and cigarettes	1927	1, 997	116, 174	94, 589	335, 356	965, 524	630, 168	35, 819								
	1925	2, 445	117, 108	99, 373	331, 351	874, 815	543, 404	24, 534								
	1923	3, 466	130, 086	107, 723	369, 491	821, 226	451, 735	24, 894								
	1921	4, 146	133, 357	108, 161	452, 212	806, 749	354, 537	-----								
	1914	13, 515	152, 892	68, 306	130, 530	314, 884	184, 354	13, 483								
Other industries, total.	1927	11, 781	268, 682	364, 375	863, 878	1, 919, 919	1, 056, 041	686, 429								
	1925	11, 209	254, 572	336, 062	828, 476	1, 806, 967	978, 491	596, 547								
	1923	11, 295	271, 227	333, 168	790, 459	1, 678, 830	888, 372	570, 037								
	1921	10, 833	223, 077	267, 034	612, 186	1, 296, 820	684, 633	-----								
	1914	11, 944	215, 400	119, 394	347, 879	662, 241	314, 361	358, 563								
Artificial and preserved flowers and plants.	1927	190	4, 715	5, 050	7, 889	19, 576	11, 688	541								
	1925	187	4, 305	4, 287	7, 265	17, 824	10, 559	737								
	1914	217	4, 808	1, 991	3, 207	7, 614	4, 407	237								
Artificial limbs	1927	130	592	908	720	3, 216	2, 495	1, 001								
	1925	123	562	794	627	3, 021	2, 394	955								
	1914	153	488	369	316	1, 498	1, 182	589								
Artists' and draftsmen's materials.	1927	61	1, 211	1, 430	3, 772	8, 205	4, 433	3, 250								
	1925	62	1, 817	1, 568	3, 802	8, 321	4, 518	2, 982								
	1914	44	604	315	2, 065	3, 238	1, 173	1, 860								
Brooms	1927	394	4, 450	4, 275	9, 176	18, 445	9, 269	4, 401								
	1925	421	4, 725	4, 654	11, 213	21, 714	10, 501	5, 399								
	1914	868	5, 642	2, 624	7, 884	14, 085	6, 201	4, 495								
Brushes, other than rubber	1927	302	7, 673	8, 244	22, 553	47, 844	25, 291	12, 093								
	1925	302	7, 836	8, 452	22, 021	45, 824	23, 803	11, 220								
	1914	359	7, 213	3, 461	9, 327	17, 894	8, 567	6, 298								
Buttons	1927	229	9, 642	9, 436	11, 238	29, 130	17, 893	15, 899								
	1925	289	11, 513	10, 893	12, 373	32, 458	20, 085	15, 840								
	1914	517	14, 511	6, 424	8, 702	20, 712	12, 010	14, 009								

## No. 797.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Cen- sus year	Num- ber of estab- lish- ments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manu- facture	Horse- power
				In thousands of dollars				
MISCELLANEOUS IN- DUSTRIES—Contd.								
Combs and hairpins, not made from metal or rubber.	1927	36	1,259	1,249	1,873	4,437	2,564	1,591
	1925	44	1,800	1,293	2,334	5,270	2,936	1,892
	1914	66	2,773	1,393	2,853	5,478	2,625	2,453
Dairymen's supplies, creamery, cheese-fac- tory, and butter-fac- tory equipment; and poultrymen's and apiarists' supplies.	1927	152	5,091	6,374	15,686	36,824	21,137	13,576
	1925	180	4,844	5,864	15,421	37,263	21,842	14,719
	1914	236	5,551	3,363	9,248	18,950	9,702	11,639
Dental goods, includ- ing dental-laboratory work.	1927	342	5,674	6,998	21,928	42,695	20,767	4,341
	1925	326	5,303	6,132	21,124	38,769	17,645	4,366
	1914	172	3,080	1,616	10,715	16,160	5,445	1,874
Enameling and japan- ning.	1927	111	2,259	3,017	3,299	9,143	5,843	6,893
	1925	95	1,550	2,170	2,250	6,896	4,646	3,775
	1914	112	1,542	798	1,064	2,547	1,483	1,715
Fancy and miscellane- ous articles, not else- where classified.	1927	595	16,965	18,307	34,674	83,006	48,333	10,802
	1925	532	14,552	14,960	29,155	69,769	40,614	9,071
	1914	493	7,399	3,567	8,429	17,659	9,230	4,465
Feathers, plumes, and manufactures there- of.	1927	38	322	397	534	1,438	904	103
	1925	70	888	976	1,881	4,179	2,298	334
	1914	239	4,483	1,988	6,102	11,451	5,349	308
Foundry supplies.	1927	65	941	1,200	6,539	11,635	5,096	11,133
	1925	66	1,087	1,360	6,904	12,723	5,819	10,733
	1914	57	555	301	997	2,013	1,016	4,689
Fur goods.	1927	2,756	16,640	37,671	195,323	299,615	104,292	5,655
	1925	2,000	16,556	35,164	159,316	254,266	94,950	4,985
	1913	1,758	14,439	27,923	126,162	198,043	71,881	4,299
	1921	1,707	12,052	22,421	84,537	139,366	54,829	-----
	1914	1,322	9,050	6,335	23,847	43,633	19,786	3,225
Furs, dressed.	1927	172	5,540	10,361	7,072	27,681	20,609	12,467
	1925	133	5,056	8,206	7,296	25,423	18,126	9,858
	1914	96	1,525	923	906	2,875	1,969	2,207
Hair work.	1927	69	515	598	830	2,279	1,449	21
	1925	85	864	975	3,046	6,090	3,043	13
	1914	205	1,193	581	1,529	3,335	1,806	68
Hand stamps and sten- cils and brands.	1927	293	2,668	3,842	3,734	14,156	10,422	3,159
	1925	323	2,930	4,015	4,070	15,321	11,250	3,658
	1914	384	1,767	1,149	1,425	4,486	3,061	1,355
Hats, men's, straw.	1927	48	3,263	4,232	11,783	21,718	9,935	1,554
	1925	83	5,920	5,823	15,178	28,154	12,976	3,541
	1914	149	9,483	5,253	14,086	25,444	11,358	5,144
Instruments, profes- sional and scientific.	1927	280	16,414	22,289	28,880	87,783	58,903	25,587
	1925	233	12,129	16,166	20,428	76,339	55,911	17,595
	1914	307	7,107	4,652	5,582	17,495	11,913	6,731
Ivory, shell, and bone work, not including buttons, combs, or hairpins.	1927	22	294	330	328	911	583	599
	1925	29	488	555	728	1,879	1,152	892
	1914	54	795	391	958	1,896	938	650
Jewelry and instru- ment cases.	1927	107	2,406	2,597	3,294	8,810	5,516	1,440
	1925	125	2,748	2,750	3,833	10,114	6,281	2,460
	1914	125	2,393	1,094	1,450	3,621	2,171	1,012
Lapidary work.	1927	92	547	1,221	9,133	12,352	3,218	513
	1925	83	589	1,285	7,273	10,123	2,850	515
	1914	89	584	641	3,941	5,360	1,419	534

## No. 797.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Cen- sus year	Num- ber of estab- lish- ments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manu- facture	Horse- power
MISCELLANEOUS IN- DUSTRIES—Contd.								
Mattresses and bed springs, not else- where classified	1927 1925 1914	838 1,018 1,000	13,481 14,403 11,747	16,887 17,430 6,723	52,182 62,489 22,399	98,835 110,717 38,717	46,652 48,228 16,318	32,927 32,840 20,604
Models and patterns, not including paper patterns	1927 1925 1914	693 689 762	5,584 5,262 4,274	10,545 9,420 3,103	4,659 4,927 2,045	23,495 22,485 8,605	18,836 17,557 6,560	11,465 10,473 5,801
Motion pictures, not including projection in theaters. <sup>20</sup>	1927 1925 1919	142 132 50	8,415 5,573 3,646	18,637 13,066 6,709	34,867 33,258 19,579	134,343 93,636 36,705	99,476 60,378 17,126	32,160 29,472 4,169
Optical goods -----	1927 1925 1914	96 117 314	7,596 8,642 7,919	9,561 10,439 4,649	8,865 9,967 6,606	32,757 33,655 18,188	23,892 23,658 11,582	12,401 11,017 7,710
Paving materials, other than brick.	1927 1925 1914	592 604 609	19,250 17,941 19,540	25,003 22,368 11,184	38,008 33,435 14,163	103,249 90,630 35,678	65,242 57,195 21,515	263,760 207,469 137,862
Pencils, lead -----	1927 1925 1914	27 25 14	5,301 5,636 4,830	5,943 6,031 1,944	9,931 9,169 4,564	24,500 25,051 8,328	14,568 15,882 3,764	9,832 8,209 3,298
Pens, fountain and stylographic	1927 1925 1914	54 60 55	3,360 3,490 1,154	3,943 4,055 718	9,638 7,741 1,614	23,255 24,035 6,865	13,617 16,295 5,251	3,334 3,213 1,157
Photographic appara- tus and materials.	1927 1925 1914	122 118 146	12,120 9,154 8,674	18,311 13,300 5,545	29,020 25,779 11,539	90,828 78,654 39,041	61,808 52,874 27,502	24,838 22,866 16,439
Pipes, tobacco-----	1927 1925 1914	23 28 47	1,807 1,970 2,354	2,279 2,291 1,188	2,723 2,718 2,308	7,274 7,299 4,220	4,551 4,551 1,912	1,928 2,052 1,641
Roofing materials, not including wood, slate, burnt tile, asbestos, or metal other than metal shingles and ceilings	1927 1925 1914	100 140 170	7,255 8,310 4,088	10,713 12,145 2,642	67,328 78,597 17,605	123,210 123,591 27,978	55,883 44,994 10,373	41,740 34,161 11,702
Sandpaper, emery pa- per, and other abra- sive paper and cloth	1927 1925 1914	10 12 12	917 1,230 681	1,228 1,714 359	5,471 7,342 2,686	12,232 15,623 4,328	6,761 8,281 1,642	2,834 4,513 3,092
Signs and advertising novelties.	1927 1925 1914	813 759 776	16,907 15,128 9,566	24,044 20,764 5,933	30,892 25,858 9,059	98,481 89,669 24,792	67,589 63,811 15,733	15,325 12,550 7,345
Soda-water apparatus..	1927 1925 1914	48 60 67	2,838 2,372 2,229	4,223 3,628 1,661	10,391 8,632 3,833	23,929 22,032 8,781	13,538 13,400 4,898	5,042 4,180 3,705
Sporting and athletic goods, not incl fire- arms or ammunition	1927 1925 1914	187 181 162	9,689 8,724 5,602	11,595 10,262 2,771	19,394 17,875 6,952	44,943 42,629 13,235	25,549 24,755 6,283	13,484 11,550 4,116
Stationery goods, not elsewhere classified	1927 1925 1914	194 217 189	8,987 11,399 7,728	9,792 12,076 3,791	27,016 31,108 10,763	56,987 67,809 21,903	29,071 36,701 11,140	8,891 10,970 5,687
Steam and other packing, pipe and boiler cov- ering, and gaskets not made in textile mills.	1927 1925 1914	159 172 149	5,946 6,086 4,213	7,905 8,072 2,525	19,794 20,372 8,176	43,045 43,871 14,213	23,250 23,499 6,037	29,810 25,579 17,165
Surgical appliances-----	1927 1925 1914	205 180 238	6,718 5,888 4,282	7,463 6,043 2,211	30,043 26,187 7,098	57,408 55,264 14,920	27,365 29,077 7,822	8,661 11,572 6,359

For footnotes see p. 814.

## No. 797.—MANUFACTURES: SUMMARY FOR INDIVIDUAL INDUSTRIES—Continued

Industry	Cen- sus year	Num- ber of estab- lish- ments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manu- facture	Horse- power
MISCELLANEOUS IN- DUSTRIES—Contd.								
Theatrical scenery and stage equipment	1927 1925 1914	39 33 7	561 391 88	1, 380 854 89	2, 330 1, 520 125	5, 745 3, 578 327	3, 415 2, 058 202	998 413 65
Toys (not including children's wheel goods or sleds), games, and play- ground equipment	1927 1925 1914	397 352 290	14, 738 6, 901 7, 887	15, 543 13, 785 3, 499	25, 805 22, 179 5, 779	63, 956 55, 734 13, 757	38, 150 33, 554 7, 978	19, 028 19, 038 6, 719
Umbrellas, parasols, and canes.	1927 1925 1914	164 176 265	3, 308 3, 731 4, 792	3, 411 3, 696 2, 167	14, 021 16, 594 8, 592	23, 156 27, 299 13, 813	9, 135 10, 705 5, 221	2, 411 3, 027 2, 544
Whips-----	1927 1925 1914	7 9 40	90 103 1, 163	89 73 559	176 132 1, 341	310 308 3, 162	135 176 1, 821	252 158 1, 071
Window shades and fixtures	1927 1925 1914	386 336 286	4, 733 5, 176 4, 077	5, 856 6, 208 2, 181	21, 065 25, 030 11, 889	37, 082 41, 658 17, 444	16, 016 16, 628 5, 555	8, 679 11, 151 6, 594
All other industries <sup>11</sup> ..	1923 1921 1914	5 16 82	633 1, 506 6, 486	1, 014 2, 076 4, 720	13, 635 9, 886 64, 062	15, 526 16, 246 76, 504	1, 890 6, 360 12, 442	1, 330 ----- 11, 900

<sup>1</sup> Because of a change in classification of some industries in this group for 1927 the figures for previous years have been revised to preserve comparability.

<sup>2</sup> No data were compiled for 1925 except for San Francisco, Calif.

<sup>3</sup> "Feeds, prepared, for animals and fowls," prior to 1927 was treated as a subclassification under "Food preparations, not elsewhere classified." Because of the transfer to this industry for 1927 of a certain class of establishments formerly classified under "Flour and other grain-mill products" the figures for earlier years are not comparable with those for 1927.

<sup>4</sup> "Lard substitutes and cooking fats" was treated as a subclassification under "Food preparations, not elsewhere classified," prior to 1927. The figures for 1927 are not comparable with those for earlier years because of transfer for 1927 to this industry classification of data for those establishments manufacturing, primarily, vegetable cooking oils, which data were to a large extent formerly included in those for "Oils, not elsewhere classified."

<sup>5</sup> For censuses prior to 1927 this industry was treated as a subclassification under "Food preparations, not elsewhere classified," but for 1927 it was treated as a separate industry.

<sup>6</sup> For censuses prior to 1927 this industry covered the manufacture of cereal preparations; prepared feeds for animals and fowls; lard substitutes, macaroni, spaghetti, etc.; and the treating of nuts (except peanuts). For 1927 separate industry classifications designate establishments engaged primarily in these activities, and accordingly the figures for prior years for the "Food preparations, not elsewhere classified," industry have been revised.

<sup>7</sup> For 1927 included in "Peanuts, walnuts, and other nuts, processed."

<sup>8</sup> Prior to 1927 part of the establishments now in this industry were classified in the "Food preparations, not elsewhere classified," industry and part in the "Peanuts, grading, roasting, cleaning, and shelling" industry, which has been abandoned.

<sup>9</sup> For 1914 reported as "Mineral and soda waters."

<sup>10</sup> The manufacture of asbestos textiles prior to 1925 treated as an industry in this group is now classified as a branch of the "Asbestos products, other than steam packing or pipe and boiler covering" industry, p. 802, therefore data have been excluded from statistics for textile-mill products for 1923 and earlier years.

<sup>11</sup> Because of a change in classification no comparable statistics can be given for prior years.

<sup>12</sup> The industry classification "Clothing, men's, youths', and boys', not elsewhere classified," for 1923, 1921, and 1914 included men's work clothing, except shirts. For 1927 and 1925 statistics for this class of wearing apparel have been shown separately as "Clothing, work (except shirts), men's."

<sup>13</sup> "Gloves and mittens, cloth" treated as a part of the "Furnishing goods, men's" industry for 1914, statistics for 1914 for the latter industry are therefore not strictly comparable with those for later years.

<sup>14</sup> "Handkerchiefs" and "Trimmings" were first treated as separate industries at the census for 1927. For prior censuses data for "Handkerchiefs" were included in part in "Furnishing goods, men's," and in part in "Millinery and lace goods," and data for "Trimmings" were included in "Millinery and lace goods."

<sup>15</sup> Included in the classification "Millinery and lace goods," which was abandoned at the census for 1927. No comparable figures can be given for earlier years.

<sup>16</sup> "Asphalted felt-base-floor coverings" included in "Linoleum" for 1914. Figures for "Linoleum" for 1914 are therefore not comparable with those for later years.

<sup>17</sup> Includes "Oakum" for 1914.

<sup>18</sup> Includes data for "Hammocks," heretofore treated as a separate industry.

<sup>19</sup> Classified in other industries for 1927 and 1925.

<sup>20</sup> No separate statistics prior to 1927.

<sup>21</sup> Combined total for paper and pulp.

<sup>22</sup> Not reported separately; included with paper.

<sup>23</sup> See footnote 24.

<sup>24</sup> "Rayon" included in "Chemicals, not elsewhere classified," for 1923 and prior years, compressed and liquefied gases included prior to 1927.

<sup>25</sup> The figures for 1925 differ from those previously published because of a change in the classification in 1927 of establishments manufacturing rubber cement as their principal product from this group to the "Rubber goods, other than tires, inner tubes, and boots and shoes" industry, in the "Rubber manufactures" group. The figures for 1914 have not been revised and therefore are not strictly comparable with later years.

<sup>26</sup> Includes distilled liquors in 1914.

<sup>27</sup> At the 1921 and 1919 censuses the malt-liquor industry was confined to cereal beverages (near beer and similar soft drinks) and in 1923 and later years these were included under "Beverages." (See p. 792.)

<sup>28</sup> Included in "Rubber goods, other than tires, inner tubes, and boots and shoes" prior to 1921.

<sup>29</sup> Includes for all years "Belting and hose, rubber" formerly treated as a separate industry. For 1914 also includes, "Rubber tires and inner tubes."

<sup>30</sup> The figures for 1925 have been revised due to a counterbalance change in "Leather Tanned, curried, and finished" and "Boot and shoe cut stock."

<sup>31</sup> The figures for 1925 and 1923 have been revised due to a change in the industries making up this subclass.

<sup>32</sup> The figures for 1927 and 1925 are not comparable with those for 1914 because of the inclusion in the earlier year of statistics for certain establishments manufacturing gloves of cloth and leather combined, for later years this class of establishments was included in the cloth-glove industry.

<sup>33</sup> Includes asbestos textiles, prior to 1925 classified as a separate industry.

<sup>34</sup> For 1914 "Millstones" are included in "All other industries," p. 813.

<sup>35</sup> Former title "Brick and tile, terra cotta, and fire-clay products."

<sup>36</sup> Included with "Steelworks and rolling mills."

<sup>37</sup> Similar products are manufactured to a large extent by steelworks and rolling mills. The figures here given refer only to establishments engaged primarily in the manufacture of the specified classes of products.

<sup>38</sup> Included in "Foundry and machine-shop products" for 1914. (See p. 808.)

<sup>39</sup> Data for establishments engaged in job welding are included in the figures for 1923 but are not included for 1927 and 1925, as job-welding establishments were not canvassed for those years.

<sup>40</sup> "Tin plate and terneplate" are treated as products of the "Iron and steel, steel works and rolling mills" industry.

<sup>41</sup> Classified in other industries subsequent to 1923.

<sup>42</sup> Figures for 1927 and 1925 include data for bells, shown as a separate industry under "Manufactures of metals" in previous years.

<sup>43</sup> No establishments were classified in this industry at the censuses for 1927, 1925, or 1914.

<sup>44</sup> Abandoned as a separate industry classification; statistics for 1927 and 1925 included with those for "Brass, bronze, and other nonferrous alloys, and manufactures of these alloys and of copper, not elsewhere classified."

<sup>45</sup> Refrigerators, mechanical, for censuses prior to 1927 included in "Electrical machinery, apparatus, and supplies" and "Foundry and machine-shop products."

<sup>46</sup> "Foundry and machine-shop products, not elsewhere classified," include for 1914: "Iron and steel, processed," "Machine tools," "Steel barrels, kegs, and drums," and "Textile machinery and parts," data for which were not specifically called for at that census. (See also footnote 45.)

<sup>47</sup> Not classified separately prior to 1919. Included in "Foundry and machine-shop products."

<sup>48</sup> For censuses prior to 1925 not separately classified, included in "Foundry and machine-shop products."

<sup>49</sup> Data for establishments engaged solely in repair work are included for 1921 and 1914 but not for 1927, 1925, and 1923. The differences between the figures for 1923, 1921, and 1914 and those published in previous reports are due to the inclusion here and the exclusion from the previous reports of data for wheelbarrows.

<sup>50</sup> The figures for 1919 do not cover the entire industry and are not, therefore, comparable with those for later years.

<sup>51</sup> At the censuses for 1927 and 1925 it was possible to present statistics for every industry covered by the census classifications; but for the preceding census years it was necessary to combine the figures for certain unimportant industries in order to avoid disclosing operations of individual establishments.

Source: Bureau of the Census, Department of Commerce.

**No. 798.—SUMMARY FOR ALL MANUFACTURING INDUSTRIES COMBINED:  
BY GEOGRAPHIC DIVISIONS AND STATES**

NOTE.—Data for "Coffee and spice roasting and grinding" (not tabulated for 1925) are included in the figures for 1914, 1921, 1923, and 1927. Data for "automobile repairing" (not collected since 1919) and for "Poultry killing and dressing" (not collected for 1927) are included in the division and State figures for 1914, but are excluded from the totals for that year and from all figures for later years. No data for establishments with products valued at less than \$5,000 are included in the statistics for 1921 to 1927; for 1914, such data have been excluded from the United States totals except for wages and horsepower but are included in the United States totals for these items and in all division and State figures. Statistics for horsepower were not collected for 1921.

Division and State	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horsepower
In thousands of dollars								
<b>United States</b> -----	1927	191,866	8,349,755	10,848,803	35,133,137	62,718,347	27,585,210	38,825,681
	1925	187,224	8,381,511	10,727,338	35,896,886	62,668,260	26,771,373	35,766,944
	1923	196,182	8,776,646	11,007,851	34,683,915	60,529,574	25,845,659	33,092,222
	1921	196,098	6,944,315	8,200,359	25,291,734	43,618,566	18,326,832	-----
	1914	176,997	6,894,846	4,067,096	14,267,137	23,974,957	9,707,820	22,288,669
<b>New England</b> -----	1927	17,745	1,098,748	1,328,650	3,048,863	6,028,475	2,979,612	4,566,155
	1925	18,173	1,122,216	1,339,310	3,203,911	6,140,063	2,936,153	4,349,191
	1923	19,081	1,254,496	1,472,315	3,290,156	6,419,975	3,129,820	4,151,136
	1921	19,057	1,071,699	1,161,291	2,521,634	4,902,508	2,380,874	-----
	1914	25,193	1,140,233	628,409	1,657,674	2,926,675	1,269,001	3,098,836
<b>Middle Atlantic</b> -----	1927	62,676	2,467,791	3,491,680	10,488,832	19,533,075	9,044,243	10,968,754
	1925	58,894	2,491,035	3,434,606	10,682,119	19,409,206	8,727,086	10,106,390
	1923	66,004	2,694,015	3,595,211	11,124,014	19,738,280	8,614,265	9,627,310
	1921	67,176	2,246,089	2,770,713	8,131,944	14,587,831	6,455,888	-----
	1914	85,466	2,355,940	1,370,131	4,680,993	8,063,644	3,372,651	6,641,348
<b>East North Central</b> -----	1927	43,671	2,309,860	3,340,801	10,525,393	18,988,400	8,463,007	11,056,846
	1925	42,857	2,335,335	3,345,354	10,756,307	19,016,851	8,260,544	10,046,917
	1923	43,948	2,386,791	3,333,375	10,162,499	17,817,291	7,654,791	9,033,225
	1921	43,503	1,710,418	2,211,699	6,871,575	11,797,244	4,925,669	-----
	1914	59,896	1,680,281	1,072,538	3,795,039	6,542,261	2,747,222	5,391,978
<b>West North Central</b> -----	1927	16,192	448,192	550,698	3,170,989	4,733,112	1,562,123	2,033,074
	1925	16,181	451,008	550,974	3,192,756	4,690,380	1,505,624	1,851,114
	1923	16,535	468,046	562,901	2,834,116	4,281,956	1,447,840	1,704,192
	1921	17,247	383,357	575,054	2,361,639	3,485,107	1,123,468	-----
	1914	27,199	381,595	235,471	1,397,841	2,082,192	634,352	1,235,147
<b>South Atlantic</b> -----	1927	17,029	879,060	794,265	2,487,871	4,681,952	2,144,081	3,805,038
	1925	16,570	888,799	757,015	2,548,720	4,531,307	1,982,587	3,517,208
	1923	17,044	831,992	729,828	2,438,201	4,237,727	1,799,525	3,143,936
	1921	16,427	646,170	564,904	1,739,105	2,984,347	1,245,242	-----
	1914	28,925	685,252	293,063	1,003,068	1,682,999	679,931	2,266,238
<b>East South Central</b> -----	1927	7,687	359,542	331,280	1,025,122	1,808,818	783,696	1,787,396
	1925	8,071	355,902	322,615	1,041,046	1,807,034	765,988	1,614,945
	1923	7,500	347,150	310,319	987,113	1,701,561	714,448	1,461,574
	1921	7,240	259,073	225,235	642,525	1,091,660	449,136	-----
	1914	14,410	264,378	117,987	387,011	700,668	313,657	1,156,654
<b>West South Central</b> -----	1927	8,208	267,142	281,156	1,644,155	2,399,410	755,255	1,419,558
	1925	7,876	264,970	267,691	1,719,519	2,543,225	823,706	1,316,629
	1923	7,642	267,042	265,272	1,374,691	2,080,207	705,516	1,227,242
	1921	8,099	229,508	238,006	1,149,033	1,723,055	574,021	-----
	1914	12,417	211,940	116,129	526,907	802,538	275,681	964,470
<b>Mountain</b> -----	1927	3,919	94,957	130,304	659,600	981,091	321,490	829,256
	1925	3,844	100,353	134,567	687,992	1,045,885	337,933	757,906
	1923	3,970	103,803	143,392	609,141	955,772	346,632	714,807
	1921	4,016	82,000	118,577	396,215	616,843	220,629	-----
	1914	6,079	81,113	66,358	272,215	437,568	165,353	459,516
<b>Pacific</b> -----	1927	15,189	424,463	599,969	2,082,311	3,614,013	1,531,702	2,359,614
	1925	14,758	414,985	575,207	2,040,494	3,454,286	1,413,792	2,269,714
	1923	14,155	420,454	591,352	1,850,831	3,256,832	1,405,961	1,886,942
	1921	13,333	316,001	432,920	1,478,065	2,429,971	951,906	-----
	1914	16,206	235,515	178,247	647,342	1,067,889	420,548	1,093,002
<b>New England:</b>								
<b>  Maine</b> -----	1927	1,426	68,142	74,212	208,866	372,093	163,228	628,941
	1925	1,500	73,849	79,777	205,709	371,849	166,141	600,787
	1923	1,642	83,328	91,854	217,070	402,650	185,880	570,532
	1921	1,761	75,710	83,429	192,102	339,562	147,459	-----
	1914	3,378	82,149	43,254	117,655	200,450	82,795	486,032



No. 798.—SUMMARY FOR ALL MANUFACTURING INDUSTRIES COMBINED:  
By GEOGRAPHIC DIVISIONS AND STATES—Continued

Division and State	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horse-power
In thousands of dollars								
New England—Contd								
	New Hampshire...	1927 1,028	65,482	72,803	182,106	327,528	145,422	376,373
		1925 1,038	66,658	71,725	192,253	327,401	135,147	370,740
		1923 1,078	75,814	79,074	185,754	353,125	147,370	352,656
		1921 1,122	67,416	67,893	139,269	240,346	107,078	-----
	1914 1,736	78,993	40,642	114,993	182,844	67,851	-----	340,605
Vermont.....		1927 880	26,241	32,305	69,957	134,030	64,073	172,762
		1925 951	27,563	32,326	74,387	138,270	63,882	178,806
		1923 1,021	30,783	34,695	80,776	149,952	69,176	177,212
		1921 1,101	25,767	28,068	63,689	113,904	50,216	-----
	1914 1,772	32,704	18,617	42,706	76,991	34,285	-----	171,738
Massachusetts.....		1927 10,037	578,068	705,930	1,678,812	3,317,852	1,639,039	2,130,563
		1925 10,027	591,438	716,156	1,773,698	3,405,672	1,631,974	2,013,017
		1923 10,519	667,172	799,363	1,835,013	3,570,543	1,735,530	1,931,787
		1921 9,994	579,071	641,361	1,441,035	2,849,414	1,408,378	-----
	1914 12,013	606,698	341,310	931,384	1,641,373	709,989	-----	1,380,912
Rhode Island.....		1927 1,497	120,009	138,896	313,107	592,233	279,126	410,181
		1925 1,595	120,346	138,126	345,221	621,920	276,699	395,754
		1923 1,691	134,667	152,500	358,581	675,425	316,844	391,928
		1921 1,759	112,745	119,414	277,693	517,118	239,425	-----
	1914 2,190	113,425	59,366	162,425	279,546	117,121	-----	266,884
Connecticut.....		1927 2,877	240,806	304,504	596,014	1,284,739	688,724	847,895
		1925 3,062	242,362	301,200	612,642	1,274,952	662,309	790,067
		1923 3,130	263,232	314,829	612,961	1,288,281	675,320	727,021
		1921 3,320	210,990	221,126	407,846	836,164	428,318	-----
	1914 4,104	226,264	125,220	288,511	545,472	256,961	-----	452,665
Middle Atlantic:								
	New York.....	1927 36,650	1,072,284	1,605,378	4,804,173	9,400,061	4,595,889	3,671,185
		1925 33,392	1,060,198	1,533,889	4,704,761	8,968,262	4,263,612	3,348,184
		1923 38,183	1,150,859	1,581,322	4,764,027	8,959,964	4,195,938	3,263,825
		1921 38,102	1,000,399	1,303,387	3,686,851	6,972,679	3,285,829	-----
	1914 48,203	1,057,857	631,042	2,108,607	3,814,661	1,706,054	-----	2,321,817
New Jersey.....		1927 8,312	408,093	570,309	1,956,597	3,417,450	1,460,853	1,496,935
		1925 8,204	425,377	576,236	2,086,855	3,539,181	1,452,326	1,384,234
		1923 8,767	448,069	578,927	2,039,477	3,396,628	1,357,150	1,256,892
		1921 8,784	381,773	460,471	1,484,334	2,556,143	1,071,808	-----
	1914 9,742	373,605	211,136	883,465	1,406,633	523,168	-----	783,706
Pennsylvania.....		1927 17,314	987,414	1,315,993	3,728,062	6,715,563	2,987,502	5,800,634
		1925 17,298	999,460	1,324,481	3,890,514	6,901,762	3,011,248	5,373,972
		1923 19,054	1,095,057	1,434,963	4,320,510	7,381,688	3,061,178	5,107,593
		1921 20,290	883,917	1,006,856	2,960,759	5,059,009	2,098,250	-----
	1914 27,521	924,478	527,963	1,688,921	2,832,349	1,143,428	-----	3,535,825
East North Central:								
	Ohio.....	1927 10,961	669,097	968,181	2,877,126	5,230,323	2,353,197	3,734,761
		1925 11,131	676,661	975,738	3,028,002	5,345,593	2,317,591	3,482,583
		1923 11,186	699,073	979,606	2,908,096	5,145,180	2,237,084	3,307,687
		1921 11,466	494,134	626,885	1,916,968	3,298,138	1,381,170	-----
	1914 15,658	510,435	317,924	1,020,782	1,782,808	762,026	-----	1,985,950
Indiana.....		1927 4,726	280,717	375,218	1,227,169	2,153,479	926,311	1,602,113
		1925 4,782	280,633	364,789	1,254,852	2,121,382	866,530	1,420,496
		1923 4,900	291,060	374,383	1,188,542	2,029,859	841,317	1,381,686
		1921 5,094	206,310	251,286	824,235	1,375,066	550,832	-----
	1914 8,022	197,503	119,258	423,857	730,795	306,938	-----	707,982
Illinois.....		1927 14,711	623,468	914,103	2,921,092	5,386,003	2,464,911	2,456,997
		1925 14,104	622,127	897,729	2,922,438	5,317,686	2,395,198	2,247,083
		1923 14,334	645,561	913,160	2,793,595	5,089,880	2,246,285	1,942,418
		1921 13,935	513,741	701,385	2,096,770	3,703,050	1,606,280	-----
	1914 18,388	506,943	340,910	1,340,183	2,247,323	907,140	-----	1,294,421
Michigan.....		1927 5,800	488,856	760,602	2,346,678	4,244,941	1,898,263	2,214,747
		1925 5,598	508,573	792,214	2,466,267	4,372,996	1,906,729	1,887,740
		1923 5,696	503,306	769,066	2,270,764	3,882,174	1,611,409	1,471,545
		1921 5,717	304,463	419,963	1,305,661	2,206,129	900,488	-----
	1914 8,724	271,090	182,252	592,801	1,086,162	493,361	-----	726,777

No. 798.—SUMMARY FOR ALL MANUFACTURING INDUSTRIES COMBINED:  
BY GEOGRAPHIC DIVISIONS AND STATES—Continued

Division and State	Cen- sus year	Num- ber of estab- lish- ments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufac- ture	Horse- power
In thousands of dollars								
<b>East North Central—</b>								
Continued.								
Wisconsin-----	1927	7,473	247,722	322,697	1,153,328	1,973,653	820,325	1,048,228
	1925	7,262	247,841	314,853	1,084,747	1,859,244	774,496	1,009,015
	1923	7,332	247,851	297,160	1,001,502	1,720,193	718,696	929,889
	1921	7,201	191,770	214,141	727,941	1,214,861	486,920	-----
	1914	9,104	194,310	112,193	417,415	696,172	277,757	676,848
<b>West North Central:</b>								
Minnesota-----	1927	3,886	98,833	123,619	726,391	1,066,727	340,336	584,328
	1925	3,881	100,514	123,656	768,798	1,099,688	330,589	507,928
	1923	3,894	103,935	125,505	646,710	962,084	315,375	460,114
	1921	4,080	85,760	107,201	584,460	849,199	264,738	-----
	1914	5,974	92,834	58,507	336,849	493,354	156,505	358,163
Iowa-----	1927	3,061	73,692	91,247	496,940	769,341	272,401	330,702
	1925	3,219	74,258	91,517	489,901	745,330	256,429	306,188
	1923	3,381	77,339	93,700	427,374	681,680	254,300	281,533
	1921	3,472	61,463	77,789	329,083	510,034	180,951	-----
	1914	5,614	63,113	39,860	205,451	310,750	105,299	189,800
Missouri-----	1927	5,422	195,378	230,017	1,004,709	1,665,173	660,464	656,269
	1925	5,100	194,652	230,428	976,783	1,602,850	626,067	589,806
	1923	5,283	196,601	227,898	941,847	1,544,378	602,531	553,247
	1921	5,433	156,309	182,816	726,278	1,159,876	433,598	-----
	1914	8,386	152,182	89,197	388,715	637,952	249,237	389,376
North Dakota-----	1927	307	3,260	4,808	34,271	47,003	12,732	16,167
	1925	320	3,261	4,575	32,307	44,632	12,325	16,711
	1923	340	3,552	5,134	30,704	42,145	11,441	16,730
	1921	388	3,107	4,669	26,265	36,358	10,093	-----
	1914	699	3,275	2,416	14,484	21,147	6,663	13,980
South Dakota-----	1927	472	5,551	6,786	63,620	83,001	19,381	24,676
	1925	502	5,107	6,172	46,324	62,702	16,377	21,847
	1923	489	5,146	6,211	38,673	47,821	13,648	16,458
	1921	574	4,635	6,350	26,846	41,558	14,711	-----
	1914	898	3,788	2,628	17,079	24,139	7,060	16,324
Nebraska-----	1927	1,277	26,110	34,296	326,917	420,296	93,379	141,506
	1925	1,303	27,108	35,936	347,445	442,084	94,639	133,303
	1923	1,378	31,238	39,732	313,782	414,725	100,944	120,999
	1921	1,387	27,548	37,275	244,938	331,951	87,013	-----
	1914	2,492	25,144	16,893	174,114	221,616	47,502	89,258
Kansas-----	1927	1,767	45,368	59,925	518,141	681,570	163,429	279,426
	1925	1,856	46,078	58,691	531,198	698,096	166,898	275,831
	1923	1,770	50,835	64,721	440,026	589,623	149,596	255,111
	1921	1,913	44,535	58,955	423,767	556,131	132,364	-----
	1914	3,136	41,259	25,970	201,148	323,234	62,086	178,246
<b>South Atlantic:</b>								
Delaware-----	1927	446	21,324	25,222	69,033	129,900	60,867	103,166
	1925	419	20,704	25,072	70,622	125,406	54,784	107,391
	1923	453	23,116	27,369	70,736	128,951	58,216	112,485
	1921	460	17,754	19,596	50,118	86,756	36,638	-----
	1914	808	22,155	11,382	31,649	56,035	24,386	64,324
Maryland-----	1927	3,205	126,700	141,903	564,120	943,411	379,290	579,713
	1925	3,179	125,761	138,560	568,108	925,688	357,580	544,558
	1923	3,163	128,802	136,255	568,605	902,936	334,331	497,945
	1921	3,120	107,049	110,446	386,064	636,640	250,576	-----
	1914	4,797	111,585	53,792	238,972	377,749	138,777	262,199
Dist. of Columbia--	1927	503	9,519	15,669	36,099	90,390	54,291	39,471
	1925	538	9,753	15,320	33,504	83,577	50,073	37,508
	1923	600	9,823	14,796	32,870	73,108	40,238	31,846
	1921	490	8,640	12,955	30,261	67,640	37,379	-----
	1914	514	8,877	6,069	12,239	28,978	16,739	24,745
Virginia-----	1927	2,432	114,918	110,378	346,166	671,347	325,181	503,726
	1925	2,552	112,126	105,881	314,524	589,236	274,712	441,795
	1923	2,743	111,678	104,680	304,493	548,153	243,661	431,237
	1921	2,569	88,554	85,062	268,918	454,233	185,316	-----
	1914	5,508	102,820	44,873	155,320	264,039	108,719	337,567

No. 798.—SUMMARY FOR ALL MANUFACTURING INDUSTRIES COMBINED:  
By GEOGRAPHIC DIVISIONS AND STATES—Continued

Division and State	Cen- sus year	Num- ber of estab- lish- ments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufac- ture	Horse- power								
In thousands of dollars																
<b>South Atlantic—Contd</b>																
West Virginia-----	1927	1, 813	77, 630	103, 431	252, 884	455, 217	202, 332	546, 440								
	1925	1, 395	80, 700	105, 892	260, 880	470, 822	209, 941	495, 051								
	1923	1, 487	85, 661	109, 937	259, 151	479, 510	220, 359	371, 699								
	1921	1, 550	60, 536	78, 549	170, 876	310, 423	159, 547	-----								
	1914	2, 749	71, 078	43, 784	110, 033	193, 512	83, 479	278, 219								
North Carolina-----	1927	2, 984	204, 590	158, 394	560, 819	1, 154, 647	593, 827	810, 798								
	1925	2, 614	182, 234	134, 237	550, 707	1, 050, 434	499, 727	800, 051								
	1923	2, 670	173, 687	127, 538	516, 149	951, 911	435, 762	702, 832								
	1921	2, 602	135, 833	94, 235	379, 965	665, 118	285, 153	-----								
	1914	5, 507	136, 844	46, 038	169, 942	289, 412	119, 470	506, 352								
South Carolina-----	1927	1, 059	108, 992	74, 478	206, 772	358, 334	151, 562	478, 245								
	1925	1, 134	100, 144	67, 062	237, 227	370, 283	133, 056	423, 359								
	1923	1, 180	96, 802	64, 753	221, 240	360, 446	139, 206	407, 735								
	1921	1, 107	76, 251	51, 410	141, 902	236, 421	94, 519	-----								
	1914	1, 885	71, 824	24, 173	91, 009	138, 891	47, 882	335, 710								
Georgia-----	1927	3, 175	154, 168	108, 118	360, 262	609, 918	249, 656	565, 899								
	1925	2, 876	141, 173	99, 210	399, 351	648, 852	249, 501	523, 334								
	1923	3, 058	137, 476	92, 144	381, 769	604, 453	222, 684	449, 888								
	1921	2, 809	98, 264	69, 916	243, 939	381, 297	137, 357	-----								
	1914	4, 639	104, 461	38, 128	160, 089	253, 271	93, 182	357, 130								
Florida-----	1927	1, 912	61, 219	56, 672	91, 716	218, 790	127, 075	177, 580								
	1925	1, 863	66, 204	65, 780	113, 796	267, 009	153, 213	144, 161								
	1923	1, 690	65, 047	52, 357	83, 188	188, 258	108, 071	138, 269								
	1921	1, 720	53, 289	42, 734	67, 063	145, 821	78, 758	-----								
	1914	2, 518	55, 608	24, 822	33, 816	81, 112	47, 296	99, 992								
<b>East South Central:</b>																
Kentucky-----	1927	1, 851	74, 912	83, 859	250, 633	447, 765	197, 132	318, 755								
	1925	1, 860	76, 562	84, 940	254, 933	453, 731	198, 798	257, 965								
	1923	1, 965	76, 697	82, 626	242, 067	426, 669	184, 602	251, 554								
	1921	2, 028	58, 808	62, 613	173, 286	302, 290	129, 004	-----								
	1914	4, 184	64, 586	31, 830	114, 829	230, 249	115, 420	237, 802								
Tennessee-----	1927	2, 098	114, 968	101, 198	351, 436	614, 041	262, 604	475, 243								
	1925	2, 157	107, 570	95, 201	356, 841	600, 026	243, 186	447, 291								
	1923	2, 304	106, 481	92, 469	333, 492	554, 581	221, 089	391, 435								
	1921	2, 241	75, 295	65, 677	224, 598	372, 478	147, 880	-----								
	1914	4, 775	74, 373	33, 083	123, 430	212, 071	88, 641	286, 844								
Alabama-----	1927	2, 355	119, 093	105, 489	317, 493	550, 372	232, 879	779, 156								
	1925	2, 349	116, 599	101, 243	325, 684	552, 824	227, 140	697, 998								
	1923	1, 996	109, 620	95, 205	323, 666	541, 729	218, 063	640, 892								
	1921	1, 855	82, 748	68, 747	186, 407	302, 809	116, 401	-----								
	1914	3, 242	78, 717	33, 897	107, 411	178, 798	71, 386	445, 604								
Mississippi-----	1927	1, 333	50, 569	40, 734	105, 559	196, 641	91, 081	214, 232								
	1925	1, 705	55, 171	41, 231	103, 588	200, 453	96, 865	211, 691								
	1923	1, 235	54, 352	40, 019	87, 888	178, 582	90, 693	177, 693								
	1921	1, 116	42, 222	30, 197	58, 254	114, 084	55, 850	-----								
	1914	2, 209	46, 702	19, 177	41, 340	79, 550	38, 210	186, 404								
<b>West South Central:</b>																
Arkansas-----	1927	1, 146	40, 032	35, 288	103, 815	182, 751	78, 936	183, 041								
	1925	1, 257	43, 977	37, 538	110, 655	195, 208	84, 543	177, 011								
	1923	1, 231	44, 545	37, 770	90, 709	172, 541	81, 832	165, 154								
	1921	1, 289	33, 431	27, 804	64, 677	113, 029	54, 353	-----								
	1914	2, 604	41, 079	20, 752	44, 907	83, 941	39, 034	177, 106								
Louisiana-----	1927	1, 624	82, 415	79, 673	427, 994	638, 361	210, 367	415, 582								
	1925	1, 742	88, 058	79, 763	465, 426	710, 050	244, 624	410, 298								
	1923	1, 781	94, 719	83, 031	407, 414	624, 683	217, 268	402, 938								
	1921	1, 851	85, 170	76, 761	311, 589	479, 100	167, 510	-----								
	1914	2, 211	77, 665	39, 544	157, 886	255, 313	97, 427	354, 765								
Oklahoma-----	1927	1, 373	27, 932	35, 785	269, 418	371, 718	102, 300	185, 480								
	1925	1, 274	26, 163	34, 036	298, 522	400, 292	101, 770	156, 608								
	1923	1, 239	25, 444	33, 036	229, 685	314, 459	84, 774	152, 956								
	1921	1, 396	22, 230	29, 514	203, 204	283, 061	79, 857	-----								
	1914	2, 518	17, 443	11, 011	70, 970	102, 006	31, 036	97, 103								

No. 798.—SUMMARY FOR ALL MANUFACTURING INDUSTRIES COMBINED:  
By GEOGRAPHIC DIVISIONS AND STATES—Continued

Division and State	Cen- sus year	Num- ber of estab- lish- ments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufac- ture	Horse- power
In thousands of dollars								
West South Central— Continued.								
Texas-----	1927	4, 065	116, 763	130, 409	842, 927	1, 206, 580	363, 653	635, 455
	1925	3, 603	106, 772	116, 354	844, 906	1, 237, 675	392, 769	572, 712
	1923	3, 691	102, 334	111, 436	646, 883	978, 524	331, 641	506, 194
	1921	3, 563	88, 677	103, 927	569, 563	841, 864	272, 302	-----
	1914	5, 084	74, 853	44, 821	253, 144	361, 279	108, 135	335, 496
Mountain:								
Montana-----	1927	565	14, 242	20, 915	151, 792	203, 503	51, 712	188, 390
	1925	606	14, 777	21, 078	146, 351	205, 474	59, 123	166, 528
	1923	679	15, 943	24, 540	128, 702	174, 874	46, 172	190, 516
	1921	571	11, 384	16, 791	49, 166	80, 771	31, 605	-----
	1914	939	13, 704	13, 001	46, 744	84, 446	37, 702	91, 671
Idaho-----	1927	470	13, 513	18, 971	47, 927	86, 256	38, 329	89, 830
	1925	487	15, 782	20, 698	52, 857	96, 642	43, 785	82, 497
	1923	510	16, 347	22, 886	43, 134	87, 429	44, 295	72, 146
	1921	485	10, 783	15, 183	36, 057	57, 067	21, 010	-----
	1914	698	8, 919	7, 491	14, 892	28, 454	13, 562	50, 297
Wyoming-----	1927	229	5, 577	9, 066	63, 741	85, 368	21, 627	40, 191
	1925	224	6, 333	10, 526	76, 073	107, 985	31, 911	28, 721
	1923	246	7, 510	12, 502	69, 695	110, 632	40, 937	23, 959
	1921	254	7, 254	13, 890	48, 320	80, 247	31, 926	-----
	1914	337	2, 989	2, 312	5, 559	11, 223	5, 664	10, 004
Colorado-----	1927	1, 483	32, 001	43, 194	173, 277	278, 221	104, 944	254, 530
	1925	1, 414	31, 958	43, 002	171, 128	278, 693	107, 585	219, 852
	1923	1, 377	31, 226	40, 653	150, 093	255, 190	105, 097	176, 076
	1921	1, 491	27, 625	38, 611	147, 249	221, 324	74, 076	-----
	1914	2, 126	27, 278	20, 200	89, 756	136, 839	47, 083	162, 701
New Mexico-----	1927	200	4, 653	5, 421	10, 056	20, 183	10, 127	21, 467
	1925	200	4, 629	5, 083	9, 684	19, 459	9, 774	18, 842
	1923	186	5, 459	6, 484	9, 954	20, 422	10, 468	16, 863
	1921	194	4, 477	4, 880	6, 159	13, 897	7, 738	-----
	1914	368	3, 776	2, 695	4, 430	9, 320	4, 890	12, 468
Arizona-----	1927	300	8, 967	12, 133	77, 799	117, 624	39, 825	100, 641
	1925	294	9, 127	11, 506	92, 271	138, 751	46, 511	102, 127
	1923	232	9, 008	12, 635	80, 993	123, 377	42, 384	128, 531
	1921	269	4, 774	6, 809	26, 495	39, 110	12, 615	-----
	1914	322	6, 898	6, 229	39, 283	64, 090	24, 807	54, 095
Utah-----	1927	556	13, 585	16, 689	120, 567	163, 118	42, 551	112, 233
	1925	517	15, 077	18, 200	127, 543	177, 225	49, 681	124, 735
	1923	585	14, 945	18, 344	114, 183	161, 607	47, 424	78, 733
	1921	645	13, 310	18, 392	74, 873	111, 055	36, 183	-----
	1914	1, 109	13, 894	10, 852	62, 233	87, 112	24, 879	59, 536
Nevada-----	1927	116	2, 419	3, 915	14, 440	26, 816	12, 375	21, 974
	1925	102	2, 670	4, 474	12, 084	21, 627	9, 542	14, 604
	1923	104	3, 365	5, 348	12, 388	22, 243	9, 855	27, 983
	1921	107	2, 393	4, 020	7, 896	13, 371	5, 475	-----
	1914	180	3, 655	3, 573	9, 317	16, 083	6, 766	18, 744
Pacific:								
Washington-----	1927	3, 344	104, 468	145, 931	389, 885	677, 914	288, 029	680, 408
	1925	3, 216	105, 983	146, 225	372, 759	659, 340	286, 581	748, 110
	1923	3, 029	111, 663	156, 435	372, 044	678, 543	306, 499	593, 330
	1921	2, 908	77, 518	99, 191	259, 685	445, 165	185, 479	-----
	1914	3, 829	67, 205	51, 703	136, 609	245, 326	108, 717	389, 344
Oregon-----	1927	1, 779	57, 179	75, 717	187, 771	342, 852	155, 081	339, 511
	1925	1, 907	59, 563	78, 190	193, 457	352, 764	159, 306	387, 749
	1923	1, 909	62, 655	81, 769	195, 922	363, 715	167, 794	322, 297
	1921	1, 730	40, 167	49, 395	123, 670	223, 664	99, 994	-----
	1914	2, 320	28, 829	20, 932	63, 258	109, 762	46, 504	214, 165
California-----	1927	10, 066	262, 816	378, 321	1, 504, 655	2, 593, 247	1, 088, 592	1, 339, 695
	1925	9, 635	249, 529	350, 792	1, 474, 273	2, 442, 133	987, 905	1, 133, 855
	1923	9, 217	246, 136	353, 149	1, 282, 895	2, 214, 663	931, 668	971, 815
	1921	8, 695	198, 316	284, 333	1, 094, 710	1, 758, 142	663, 432	-----
	1914	10, 057	139, 481	105, 613	447, 475	712, 801	265, 326	489, 493

## No. 799.—MANUFACTURES IN CITIES HAVING

NOTE.—All figures except number of wage earners in thousands of dollars. Data for the "Automobile but not in those for later years Data for the "Coffee and spice roasting and grinding" industry are compiled See also general note, p 785

City and State	Wage earners (average for the year)				Wages (thousands of dollars)			
	1914	1923	1925	1927	1914	1923	1925	1927
Akron, Ohio.....	24,680	44,903	52,546	53,008	17,310	71,284	80,476	85,731
Albany, N. Y.....	9,371	10,542	9,609	9,378	5,635	13,823	12,383	13,030
Atlanta, Ga.....	12,585	16,005	18,208	18,583	6,004	16,116	17,643	17,674
Baltimore, Md.....	73,769	90,208	85,771	84,005	35,509	93,667	93,582	93,404
Birmingham, Ala.....	10,863	14,817	16,054	16,611	6,505	16,595	18,120	18,966
Boston, Mass.....	78,894	82,978	77,334	77,232	49,444	107,875	103,812	104,852
Bridgeport, Conn.....	30,042	33,207	28,763	28,415	16,929	37,882	34,904	36,615
Buffalo, N. Y.....	54,416	70,054	66,015	63,615	34,813	96,573	96,000	95,126
Cambridge, Mass.....	16,749	25,674	21,945	20,929	10,217	30,999	27,409	26,384
Camden, N. J.....	22,541	27,842	22,700	26,712	12,978	33,413	29,175	35,799
Chicago, Ill.....	313,710	385,685	370,041	372,061	213,737	571,725	563,635	576,159
Cincinnati, Ohio.....	59,861	65,665	63,715	62,493	33,159	78,724	80,996	79,701
Cleveland, Ohio.....	103,317	141,648	132,852	131,146	67,351	205,388	201,378	201,092
Columbus, Ohio.....	17,236	27,618	24,590	24,228	11,177	37,236	33,272	32,482
Dallas, Tex.....	5,284	8,143	9,412	9,459	3,464	9,420	11,104	10,471
Dayton, Ohio.....	24,061	29,665	29,341	30,213	14,076	41,779	43,665	44,392
Denver, Colo.....	11,062	15,629	15,077	15,054	7,042	19,942	19,971	19,458
Des Moines, Iowa.....	5,306	9,558	8,007	7,253	3,560	12,665	11,456	9,592
Detroit, Mich.....	99,603	171,025	172,742	189,649	69,447	282,741	293,896	318,096
Fall River, Mass.....	36,834	37,018	30,596	31,489	16,131	35,509	28,241	29,342
Fort Worth, Tex.....	2,308	6,249	6,968	7,419	1,542	7,558	8,492	9,079
Grand Rapids, Mich.....	17,427	24,053	26,479	24,449	10,296	32,689	36,294	35,420
Hartford, Conn.....	17,137	23,611	21,758	22,038	11,312	30,354	29,858	29,930
Houston, Tex.....	5,607	9,242	9,007	12,044	3,590	11,851	10,805	14,909
Indianapolis, Ind.....	30,971	45,818	41,805	42,136	19,042	54,364	51,394	54,969
Jersey City, N. J.....	31,021	33,264	30,607	24,932	17,651	44,736	42,496	36,340
Kansas City, Kans.....	13,095	16,264	14,137	13,509	8,176	19,460	17,575	18,397
Kansas City, Mo.....	16,252	22,956	25,576	25,486	10,504	29,118	32,884	32,147
Los Angeles, Calif.....	23,744	55,467	58,026	66,536	18,277	81,468	85,736	99,747
Louisville, Ky.....	25,930	37,620	37,672	34,366	14,196	42,145	43,355	39,822
Lowell, Mass.....	29,904	27,162	21,570	18,787	14,002	28,256	21,179	18,886
Memphis, Tenn.....	8,389	10,508	9,988	9,435	4,901	10,836	11,319	10,130
Milwaukee, Wis.....	61,839	74,590	77,432	86,550	36,270	93,424	105,123	120,806
Minneapolis, Minn.....	28,956	33,462	31,730	34,065	18,895	41,163	40,311	43,057
Nashville, Tenn.....	8,573	11,685	10,549	12,975	4,321	10,735	9,691	12,776
New Bedford, Mass.....	33,343	37,917	35,696	35,084	16,558	41,146	37,100	36,389
New Haven, Conn.....	24,993	26,108	22,863	25,096	14,462	30,648	28,464	31,136
New Orleans, La.....	17,348	21,575	22,118	22,280	8,538	18,737	20,291	21,645
New York, N. Y.....	535,279	579,005	538,845	552,507	357,498	851,186	844,648	904,646
Newark, N. J.....	63,084	70,066	66,854	62,727	36,647	89,465	89,640	89,568
Norfolk, Va.....	5,263	5,083	5,429	4,556	2,258	5,875	5,990	5,257
Oakland, Calif.....	7,706	15,027	15,537	15,939	5,966	21,096	21,654	23,273
Omaha, Nebr.....	8,922	18,142	15,463	14,780	5,810	23,195	21,048	19,644
Paterson, N. J.....	30,925	33,247	33,779	32,854	16,195	41,277	45,003	45,826
Philadelphia, Pa.....	251,286	274,319	246,680	243,008	138,249	356,438	332,415	334,811
Pittsburgh, Pa.....	69,020	76,665	65,414	61,892	46,068	110,466	94,458	89,039
Portland, Oreg.....	11,273	21,534	20,077	20,318	8,542	28,244	26,736	27,214
Providence, R. I.....	44,176	45,495	41,207	42,735	24,482	52,970	49,710	50,818
Reading, Pa.....	24,131	28,712	27,247	26,383	11,885	34,775	32,748	31,712
Richmond, Va.....	17,282	18,833	18,137	19,351	8,440	18,995	17,961	19,084
Rochester, N. Y.....	47,113	58,649	52,589	56,685	26,600	77,646	73,406	80,316
St. Louis, Mo.....	95,058	113,253	105,022	109,428	51,150	135,468	130,857	134,915
St. Paul, Minn.....	18,483	22,841	23,664	21,826	12,796	29,108	30,701	28,163
Salt Lake City, Utah.....	4,931	6,224	4,898	4,709	3,801	7,509	5,876	5,965
San Antonio, Tex.....	4,083	5,581	5,440	6,363	2,412	5,335	5,367	6,385
San Francisco, Calif.....	31,758	43,638	41,720	41,909	25,289	61,376	61,040	61,134
Scranton, Pa.....	12,559	13,093	12,578	11,115	6,040	13,537	13,697	12,311
Seattle, Wash.....	12,429	17,842	19,220	20,421	9,835	25,323	27,610	29,508
Spokane, Wash.....	3,020	4,580	6,098	5,678	2,465	5,973	7,981	7,617
Springfield, Mass.....	14,240	19,089	17,693	16,782	9,350	23,965	23,189	22,012
Syracuse, N. Y.....	17,551	23,921	23,086	22,562	11,031	31,631	31,118	32,196
Toledo, Ohio.....	27,076	41,613	37,209	38,727	18,124	57,537	57,451	57,049
Trenton, N. J.....	19,828	24,045	22,322	19,965	11,134	30,913	30,135	25,887
Washington, D. C.....	8,877	9,823	9,753	9,519	6,069	14,796	15,320	15,669
Wilmington, Del.....	15,048	14,993	13,549	13,993	8,674	19,041	17,057	17,926
Worcester, Mass.....	29,452	36,449	31,142	30,294	17,633	47,244	42,330	41,268
Yonkers, N. Y.....	12,650	14,005	12,662	13,414	6,455	18,803	17,677	18,511
Youngstown, Ohio.....	15,861	20,516	19,215	18,566	12,349	35,202	33,682	31,494

<sup>1</sup> Data not available for 1923.

## IN 1920, 100,000 OR MORE INHABITANTS

repairing" and the "Poultry killing and dressing" industries have been included in the figures for 1914 not included in the figures for 1925, except San Francisco, the only city for which these statistics were

Value of products				Value added by manufacture <sup>1</sup>			City and State
1914	1923	1925	1927	1914	1925	1927	
122,292	406,837	565,391	567,482	56,230	234,796	252,035	Akron, Ohio.
25,211	53,026	52,178	58,185	13,811	26,972	30,533	Albany, N. Y.
41,279	122,284	131,237	115,830	18,162	59,193	51,488	Atlanta, Ga.
215,172	654,256	678,384	692,575	94,639	250,304	266,655	Baltimore, Md.
43,144	89,423	100,204	109,039	17,632	40,518	48,791	Birmingham, Ala.
284,802	583,600	585,992	618,692	134,234	295,722	310,021	Boston, Mass.
85,126	148,856	149,098	158,697	40,394	80,562	87,360	Bridgeport, Conn.
247,616	590,892	675,436	649,302	89,520	244,903	246,696	Buffalo, N. Y.
57,484	185,524	165,833	155,477	25,949	89,182	90,749	Cambridge, Mass.
71,824	180,766	164,051	196,860	35,730	81,703	99,146	Camden, N. J.
1,483,498	3,323,341	3,439,163	3,478,754	581,565	1,557,016	1,588,906	Chicago, Ill.
210,860	433,469	457,539	437,954	96,753	216,410	216,342	Cincinnati, Ohio.
352,418	1,096,503	1,094,780	1,040,754	153,925	494,888	484,236	Cleveland, Ohio.
37,608	186,843	178,289	169,068	26,972	80,612	82,211	Columbus, Ohio.
31,065	92,189	112,158	98,009	11,495	42,961	37,511	Dallas, Tex.
71,071	187,934	206,104	235,166	38,117	122,839	144,537	Dayton, Ohio.
46,982	120,790	125,763	116,748	18,946	53,232	48,068	Denver, Colo.
23,747	102,919	83,624	76,108	11,472	40,218	35,558	Des Moines, Iowa.
400,948	1,438,247	1,599,340	1,736,933	178,099	693,169	778,423	Detroit, Mich.
64,663	172,366	134,495	120,234	27,502	47,790	49,638	Fall River, Mass.
9,974	75,163	100,329	109,637	4,142	24,496	26,890	Fort Worth, Tex.
49,792	130,278	145,706	135,254	25,707	81,742	80,576	Grand Rapids, Mich.
42,831	101,894	109,678	111,089	25,187	64,248	69,953	Hartford, Conn.
25,868	89,134	87,445	102,154	9,744	36,573	41,952	Houston, Tex.
139,700	346,858	344,925	345,815	48,636	141,486	145,715	Indianapolis, Ind.
164,528	313,999	340,735	270,842	52,746	139,235	111,347	Jersey City, N. J.
159,700	262,447	288,545	296,046	20,433	48,913	51,266	Kansas City, Kans.
60,953	196,674	221,349	222,136	28,972	93,833	95,572	Kansas City, Mo.
103,458	417,654	531,827	610,166	44,517	256,337	304,370	Los Angeles, Calif.
105,223	240,538	263,693	242,696	49,624	113,870	108,770	Louisville, Ky.
56,049	100,998	81,136	69,171	22,945	37,574	35,104	Lowell, Mass.
39,133	95,537	108,877	91,670	16,128	40,210	34,147	Memphis, Tenn.
223,555	514,591	541,912	627,416	98,679	250,025	296,505	Milwaukee, Wis.
187,854	338,329	338,824	348,417	56,655	117,440	130,731	Minneapolis, Minn.
33,276	83,042	79,331	94,435	13,915	31,957	40,245	Nashville, Tenn.
65,575	149,999	143,551	125,542	28,001	63,471	60,656	New Bedford, Mass.
57,752	113,925	110,506	124,034	30,435	64,603	70,115	New Haven, Conn.
69,814	135,184	155,106	151,893	29,253	61,845	61,747	New Orleans, La.
2,292,832	5,349,077	5,324,414	5,722,071	1,063,677	2,605,621	2,868,237	New York, N. Y.
210,601	448,172	490,047	482,739	97,163	238,120	244,635	Newark, N. J.
13,710	29,232	35,455	29,127	6,390	15,551	14,092	Norfolk, Va.
28,522	122,492	144,841	159,376	13,529	60,741	64,629	Oakland, Calif.
66,438	315,971	339,004	307,472	18,372	59,786	58,005	Omaha, Nebr.
73,429	194,858	200,977	207,470	37,799	94,626	105,426	Paterson, N. J.
784,500	1,998,750	1,937,415	1,861,502	333,303	887,935	880,726	Philadelphia, Pa.
246,694	610,189	518,964	508,529	96,779	224,582	220,292	Pittsburgh, Pa.
55,697	154,415	160,521	146,974	21,798	65,359	63,869	Portland, Oreg.
115,335	215,654	212,118	214,617	51,365	105,050	105,372	Providence, R. I.
53,232	134,502	132,406	121,095	21,846	64,055	60,929	Reading, Pa.
62,491	146,413	167,450	220,743	31,932	83,477	128,598	Richmond, Va.
140,697	337,362	337,548	368,111	82,167	201,041	222,868	Rochester, N. Y.
360,480	914,277	874,557	937,416	156,674	361,137	387,917	St. Louis, Mo.
68,682	160,355	194,013	160,331	32,863	86,753	77,677	St. Paul, Minn.
16,663	47,572	32,589	35,115	8,130	15,708	15,669	Salt Lake City, Utah.
17,849	34,756	38,634	45,634	7,759	15,638	20,164	San Antonio, Tex.
162,300	416,318	426,810	429,728	65,260	181,283	192,086	San Francisco, Calif.
28,722	64,169	61,282	55,704	12,923	28,080	26,735	Scranton, Pa.
64,475	155,781	159,566	167,079	26,705	69,998	73,295	Seattle, Wash.
16,636	40,562	43,156	46,170	7,182	17,030	18,071	Spokane, Wash.
44,429	104,568	109,516	103,922	22,514	63,146	57,872	Springfield, Mass.
52,164	149,145	154,029	147,903	28,413	83,019	81,632	Syracuse, N. Y.
115,049	360,375	371,120	360,115	44,555	143,475	114,901	Toledo, Ohio.
54,822	116,623	126,516	107,417	24,879	63,547	57,694	Trenton, N. J.
28,987	73,108	85,877	90,390	16,739	50,073	54,291	Washington, D. C.
39,403	80,016	76,502	81,706	17,262	34,526	37,556	Wilmington, Del.
82,829	212,043	210,461	193,502	37,035	105,065	97,371	Worcester, Mass.
67,223	144,896	120,467	107,998	15,115	36,553	32,974	Yonkers, N. Y.
92,111	272,184	236,180	207,379	23,034	65,177	63,901	Youngstown, Ohio.

Source. Bureau of the Census, Department of Commerce.

### No. 800.—INDEXES OF PRODUCTION OF MANUFACTURES AND MINERALS

NOTE.—The manufactures index covers 52 industries and the minerals index 8. Both indexes have been adjusted for seasonal variations and for the number of working days in the month

[Monthly average 1923-1925=100]

Month	Manufactures							Minerals						
	1922	1923	1924	1925	1926	1927	1928	1922	1923	1924	1925	1926	1927	1928
January.....	73	100	99	106	109	105	106	76	101	102	104	92	116	103
February.....	75	100	102	106	109	107	110	87	99	104	99	95	118	102
March.....	78	103	101	106	108	110	110	97	103	98	96	104	113	103
April.....	81	107	96	104	108	109	110	53	111	92	99	107	106	105
May.....	86	106	88	103	107	112	110	53	108	93	104	104	108	105
June.....	90	106	84	102	109	109	111	58	109	93	101	106	105	101
July.....	89	103	82	104	108	108	111	56	112	92	104	107	99	100
August.....	87	101	88	102	111	107	113	62	110	92	107	109	106	105
September.....	89	101	93	104	112	106	115	82	97	97	82	110	103	107
October.....	94	98	95	108	111	103	114	91	104	96	90	114	105	114
November.....	98	97	98	109	107	99	112	94	105	96	94	118	101	113
December.....	100	97	102	111	104	99	114	99	98	99	93	119	102	112

Source. Federal Reserve Board

### No. 801.—MANUFACTURES PRODUCTION: INDEXES FOR GROUPS OF INDUSTRIES

NOTE.—These indexes cover the 52 industries totaled in Table 800. They have been adjusted for seasonal variations and for the number of working days in the month

[Monthly average 1923-1925=100]

Year and month	Total	Iron and steel	Textiles	Food products	Paper and printing	Lumber	Automobiles	Leather and shoes	Cement, brick, and glass	No-ferrous metals	Petroleum refining	Rubbers	Tobacco manufactures
1919.....	84	82	92	94	76	79	50	104	55	67	54	-----	82
1920.....	87	99	84	84	87	79	58	97	66	78	64	-----	87
1921.....	87	46	87	83	70	68	41	90	63	39	64	55	85
1922.....	87	83	99	94	85	89	66	102	80	69	74	77	89
1923.....	101	105	105	99	95	99	102	110	95	94	98	83	96
1924.....	94	88	91	103	99	96	90	94	95	99	99	98	99
1925.....	105	106	104	98	106	105	107	96	110	107	115	116	105
1926.....	108	113	104	97	115	100	111	98	113	112	125	116	112
1927.....	106	104	113	96	113	94	88	103	109	109	136	120	118
1928.....	111	119	107	98	117	89	113	102	120	115	152	144	124
1927													
January.....	105	103	108	96	113	97	98	99	100	115	135	118	114
February.....	107	112	108	94	113	96	100	102	107	111	134	114	115
March.....	110	115	114	100	113	92	104	98	120	109	135	122	116
April.....	109	114	113	100	114	86	104	99	109	111	134	134	123
May.....	112	116	116	103	113	96	106	100	108	110	132	127	122
June.....	109	108	120	101	113	94	93	106	109	108	134	140	115
July.....	108	105	118	96	114	95	83	112	110	107	136	119	109
August.....	107	102	118	96	112	95	89	112	114	109	136	117	118
September.....	106	98	118	91	114	98	81	111	113	106	139	114	122
October.....	103	94	113	92	112	94	71	107	109	107	142	117	120
November.....	99	89	112	93	110	95	49	99	108	106	140	122	121
December.....	99	94	106	95	112	93	57	97	106	111	137	113	114
1928													
January.....	106	107	107	103	115	92	93	99	114	100	135	124	119
February.....	110	113	108	110	116	93	101	117	108	139	139	135	120
March.....	110	114	107	105	118	94	111	102	112	108	141	134	120
April.....	110	122	101	98	118	95	108	97	111	109	147	134	120
May.....	110	116	107	96	121	93	107	96	116	111	150	133	120
June.....	111	115	108	93	118	91	117	108	123	115	153	143	125
July.....	111	124	100	89	117	94	119	112	119	113	156	149	125
August.....	113	121	107	90	117	87	133	112	126	117	160	151	129
September.....	115	128	107	95	118	82	139	110	130	117	162	169	128
October.....	114	126	112	98	116	81	122	103	122	121	160	167	126
November.....	112	120	113	102	115	85	94	97	122	126	159	155	124
December.....	114	123	111	104	114	87	103	92	130	128	159	143	127

Source. Federal Reserve Board.

## No. 802.—TEXTILE MANUFACTURES: PRODUCTION

NOTE.—In general, most of the articles listed are finished products, but large quantities of partly finished products, especially yarn, made for sale to other establishments of the same or other branches of the textile industry are included. This involves considerable duplication in total value of products and in cost of material. The products listed under each branch of the textile industry represent only the output of concerns classified as engaged primarily in that branch. Certain quantities, usually small, of some of the products are also made in establishments classed under other branches. In 1927, these amounts were as follows: Cotton goods, \$10,262,230 (not including cordage and twine mills); cotton-lace goods, \$695,816; other knit goods, \$729,959; silk goods, \$7,131,055; woolen and worsted goods, \$14,145,016; felt goods, \$997,972; wool-felt hats, \$646,154; carpets and rugs, \$71,951; cordage and twine and jute and linen goods, \$12,572,428; fur-felt hats, \$862,462; oilcloth, \$1,261,824; artificial leather, \$621,924.

Industry and product	Unit	Quantity (thousands of unit specified)			Value (thousands of dollars)		
		1914	1925	1927	1914	1925	1927
COTTON-GOODS AND SMALL-WARES INDUSTRIES							
All products, total value					688, 094	1, 789, 043	1, 682, 221
Sheetings	Sq. yard	2, 665, 627	1, 638, 169	1, 857, 476	133, 332	180, 357	167, 888
Print cloth	do.		1, 166, 374	1, 583, 861		98, 463	109, 826
Voiles	do.		124, 479	151, 654		14, 438	15, 012
Lawns, nainsooks, cambrics, and similar muslins.	do.		326, 087	272, 454		43, 323	32, 101
		1, 153, 242			60, 218		
Tobacco, cheese, butter, bunting, and bandage cloths	do.		451, 633	660, 424		16, 269	19, 298
Ginghams	do.	489, 661	356, 476	290, 619	36, 706	57, 591	37, 129
Shirtings	do.	185, 326	455, 397	378, 530	15, 948	75, 757	55, 437
Drills	do.	289, 970	286, 115	347, 776	21, 257	42, 389	40, 668
Twills and sateens	do.	392, 109	532, 831	413, 997	32, 892	84, 133	50, 336
Ticks and denims	do.	229, 330	228, 854	313, 401	24, 948	56, 397	60, 150
Osnaburgs	do.	(1)	118, 069	164, 976	(1)	18, 449	17, 900
Cotton flannel (canton flannel, flannelettes, and blanketings).	do.	263, 862	340, 416	400, 097	24, 352	53, 607	55, 386
Tire duck	do.		40, 762	35, 474		16, 629	11, 343
Ducks (except tire)	do.	251, 368	193, 334	218, 505	49, 179	53, 827	57, 929
Tire fabrics (except tire duck.)	do.	(1)	201, 365	190, 457	(1)	88, 997	69, 631
Tapestries	do.	10, 138	15, 737	18, 619	5, 412	17, 390	16, 612
Pile fabrics.							
Plushes, velvets, velvet-eens, etc.	do.	29, 129	33, 478	42, 689	8, 540	40, 679	45, 710
Corduroys	do.		21, 593	23, 171		9, 553	8, 677
Turkish towels and toweling	do.		50, 663	169, 997		18, 253	42, 611
Towels, etc. (except pile fabrics)	do.	*75, 799	75, 903		*9, 805	19, 897	
Cotton table damask	do.	(1)	53, 468	33, 523	(1)	3, 384	6, 751
Blankets	do.	(1)	92, 077	107, 263	(1)	29, 548	29, 452
Bedspreads and quilts (crochet, marseilles, and satin)	do.	(1)	52, 637	71, 283	(1)	16, 703	18, 950
Bags made from fabric woven by establishment	do.	*129, 357	12, 694	17, 558	*9, 706	12, 665	3, 271
Small wares					4, 927	67, 127	61, 809
Yarns for sale	Pound	497, 987	628, 170	664, 745	127, 364	313, 907	253, 802
Thread	do.	26, 507	34, 167	29, 992	22, 917	53, 284	46, 409
Bating, wadding, and mattress felts	do.	(1)	90, 681	129, 836	(1)	14, 134	16, 304
Cotton waste for sale.	do.	317, 360	419, 604	485, 308	14, 422	40, 824	26, 842
All other products.	do.				86, 169	231, 294	254, 987
COTTON-LACE INDUSTRY							
All products, total value					13, 207	30, 843	27, 292
Nottingham lace curtains.	Pair	5, 591	4, 560	5, 661	4, 679	10, 277	10, 798
Nottingham lace curtain nets.	Lin. yard	7, 505	28, 612	19, 197	1, 258	8, 823	5, 518
Lavers laces.	Sq. yard	7, 237	8, 982	(1)	3, 681	6, 548	6, 263
All other products					3, 589	5, 195	4, 719

\* Not reported separately.

\* Includes "All other terry weaves."

\* Includes bags and bagging.

\* Not strictly comparable with 1925 and 1927 because of changes in classification of certain products.

\* Data not available.



## No. 802.—TEXTILE MANUFACTURES: PRODUCTION—Continued

Industry and product	Unit	Quantity (thousands of unit specified)			Value (thousands of dollars)		
		1914	1925	1927	1914	1925	1927
KNIT GOODS							
All products, total value					258, 913	809, 980	816, 620
Hose	Doz pair	44, 186	59, 597	110, 006	63, 145	302, 219	453, 593
Half hose	do	30, 978	40, 180		34, 954	101, 646	
Sueded cotton gloves	do	2, 470	70	28	10, 520	744	350
Gloves and mittens (except sueded)	do		1, 231	1, 022		8, 340	6, 987
Shirts and drawers	Dozen	21, 759	11, 262	8, 492	57, 523	60, 845	38, 961
Union suits	do	6 273	11, 500	9, 786	35, 596	99, 215	83, 685
Bathing suits	do	274	695	740	2, 034	16, 322	15, 857
Scarfs and shawls	do	63	492	188	714	4, 661	2, 215
Headwear	do	987	805	700	3, 456	4, 511	3, 877
Neckties	do	( <sup>1</sup> )	2, 705	1, 810	( <sup>1</sup> )	8, 961	5, 853
Jersey cloth and tricollette	Sq. yard	10, 594	42, 172	44, 404	4, 379	36, 451	37, 697
Stockinette	do					2, 168	977
Glove and shoe linings	do	6, 222			670	4, 632	4, 773
Towels and toweling	do	( <sup>1</sup> )	976	920	( <sup>1</sup> )	701	659
Cotton yarns for sale	Pound	17, 053	8, 098	6, 169	3, 990	3, 639	1, 891
Cotton waste for sale	do	12, 999	12, 309	15, 299	629	1, 321	1, 013
All other products					41, 303	153, 584	158, 252
SILK GOODS							
All products, total value					254, 011	808, 979	750, 124
Broad silk:							
All silk	Sq. yard	7 142, 713	384, 725	385, 530	96, 690	426, 000	376, 919
Silk mixed	do	773, 320	98, 391	127, 296	41, 030	103, 121	108, 696
Velvets	do	7 16, 318	6, 078	5, 484	8, 570	14, 525	11, 909
Plushes	do	7 9, 115	925	1, 810	10, 136	2, 352	2, 748
Upholstery and tapestry	do	7 478	2, 675	3, 705	840	5, 037	8, 303
Organsine, tram, and crêpe twist for sale	Pound	4, 070	9, 660	11, 409	16, 024	66, 478	70, 247
Spun silk for sale	do	1, 607	4, 692	4, 456	4, 577	20, 364	15, 696
Machine twist	do	660	860	723	4, 037	8, 971	6, 474
Sewing, embroidery, and other floss silks.	do	902	764	659	5, 645	6, 020	5, 768
Ribbons					38, 201	52, 061	36, 041
Laces, embroideries, nets, veils, veulings, etc.					1, 329	1, 326	570
Fringes and gimps					1, 025	6, 794	7, 508
Braids and binding					3, 073	14, 513	11, 285
All other products					22, 834	81, 417	87, 960
WOOLEN AND WORSTED GOODS							
All products, total value					379, 484	957, 790	817, 978
Suitings, dress goods, overcoatings, and cloakings <sup>2</sup>	Sq yard	455, 044	480, 922	414, 349	238, 310	566, 302	456, 453
All-wool woolen	do	90, 950	153, 323	136, 664	55, 660	198, 964	167, 484
All-wool worsted	do	222, 421	179, 163	173, 754	141, 778	275, 617	231, 998
Wooland cotton mixed	do	31, 400	26, 124	30, 433	11, 711	25, 943	20, 844
Cotton-warp woolen	do	53, 510	60, 933	46, 609	13, 598	40, 029	24, 785
Cotton-warp worsted	do	56, 763	41, 379	26, 889	15, 563	25, 749	14, 342
Flannels for underwear (all wool)	do	2, 176	672	( <sup>3</sup> )	880	299	( <sup>3</sup> )
Flannels for underwear (cotton mixed)	do	4, 996	999	( <sup>3</sup> )	1, 090	649	( <sup>3</sup> )
Domett flannels and shutings	do	16, 092	7, 206	8, 413	2, 814	3, 440	3, 627
Satinets and linseys	do	8, 415	11, 877	3, 974	1, 535	4, 244	1, 282
Blankets, all-wool	do	6, 490	11, 084	17, 295	4, 187	10, 980	12, 359
Horse blankets	do	8, 165	1, 410	1, 069	2, 018	787	631
Yarns for sale	Pound	132, 560	151, 000	145, 728	85, 872	210, 692	183, 430
Noils and wool waste for sale	do	50, 395	42, 591	48, 419	10, 140	17, 887	18, 491
All other products					32, 638	142, 502	138, 705

<sup>1</sup> Not reported separately<sup>2</sup> Data not available.<sup>3</sup> Included in "All other products"<sup>4</sup> Linear yards. Comparable figures in square yards not available<sup>5</sup> Exclusive of embroideries, which are included in "All other products."<sup>6</sup> Includes data only for the five classes specified below Data for other suitings such as mohair, mohair and cotton mixed, woolen-worsted, etc., are included in figures for "all other products"

## No. 802.—TEXTILE MANUFACTURES: PRODUCTION—Continued

Industry and product	Unit	Quantity (thousands of unit specified)			Value (thousands of dollars)		
		1914	1925	1927	1914	1925	1927
FELT GOODS							
All products, total value.....					13,693	43,776	41,895
Felt cloths.....	Pound.....		6,391	6,401	797	15,821	15,009
Trimming and lining felts, skirts and skirtings.....	do.....		2,690	3,708	1,321	2,088	3,122
Boot and shoelinings.....	do.....		1,163	1,723	1,513	957	1,165
Hair felting.....	do.....		31,058	31,095	635	5,209	6,075
All other felts.....					8,829	16,516	13,644
All other products.....					598	3,185	2,880
HATS, WOOL-FELT							
All products, total value.....					1,944	8,949	9,382
Hats.....	Dozen.....	381	373	386	1,777	6,340	5,528
Hat bodies and hats in the rough.....	do.....	6	185	379	13	1,347	2,734
All other products.....					154	1,261	1,120
CARPETS AND RUGS							
All products, total value.....					69,128	187,779	166,888
Carpets.....	Sq. yard.....	17,311	21,859	16,872	15,187	49,024	40,778
Rugs, made of sewed strips.....	do.....	20,855	14,264	9,340	25,946	53,628	35,106
Rugs, woven whole.....	do.....	28,174	35,977	40,981	23,551	79,233	87,333
All other products.....					4,444	5,894	3,671
WOOL SHODDY							
All products, total value.....					7,707	21,022	12,597
Recovered wool fiber.....	Pound.....	43,156	67,543	40,823	5,977	19,057	10,710
All other products.....					1,730	1,965	1,887
CORDAGE AND TWINE AND JUTE AND LINEN GOODS							
All products, total value.....					83,235	139,123	122,736
Rope, cable, and cordage.....							
Manila hemp.....	Pound.....	104,909	101,006	105,614	12,860	21,791	22,607
Sisal.....	do.....	39,899	43,094	30,712	2,991	6,469	4,439
Hennequin.....	do.....	13,534	5,223	12,992	1,042	778	1,840
Cotton.....	do.....	13,244	20,316	22,931	2,540	7,317	6,471
All other.....	do.....	26,815	58,033	55,929	2,097	9,661	8,154
Twine, binder.....	do.....	302,287	233,661	169,795	24,095	29,249	19,457
Twine, cotton.....	do.....	17,927	28,643	35,928	3,472	10,816	10,599
Twine, other.....	do.....	87,322	56,591	74,065	10,525	11,000	12,813
Yarn for sale.....	do.....	75,875	97,025	88,330	8,320	19,387	15,707
Linen thread.....	do.....	5,708	2,815	2,620	3,409	4,614	4,079
Linen woven goods.....	Sq. yard.....	10,800	7,847	10,800	1,766	2,934	3,099
Jute bagging.....	do.....	131,828	40,871	43,072	6,441	4,483	4,633
All other products.....					3,677	10,624	8,838
HATS, FUR-FELT							
All products, total value.....					37,350	80,066	99,300
Hats.....	Dozen.....	2,119	1,733	2,052	33,604	62,224	73,333
Hat bodies and hats in the rough.....	do.....	329	953	1,176	2,373	14,401	18,871
All other products.....					1,373	3,441	7,096
FLOOR COVERING AND ARTIFICIAL LEATHER <sup>10</sup>							
All products, total value.....						136,307	133,239
Oilcloth (cotton back).....	Sq. yard.....		81,020	105,284		18,822	18,763
Linoleum (jute back).....	do.....		52,830	56,677		44,513	46,213
Floor covering (felt back) <sup>11</sup> .....	do.....		77,889	111,793		30,029	34,900
Artificial leather <sup>11</sup> .....	do.....		68,580	59,676		35,790	28,544
All other products.....						7,153	4,816

<sup>10</sup> Comparable figures for 1914 not available.<sup>11</sup> "Artificial leather" and "Asphalted felt-base floor covering" were given separate classifications for the first time at the census of 1923.

Source: Bureau of the Census, Department of Commerce.

## No. 803.—CHEMICALS: PRODUCTS MADE FOR SALE

NOTE.—The table includes products made in all industries, sometimes as by-products. In addition to quantities shown in the table, made for sale, large quantities of certain chemicals, especially acids, are made and consumed in further processes in the same establishment. There is considerable duplication in the total value of products due to the use of products sold by one establishment as materials for other establishments manufacturing chemicals. Tons are of 2,000 pounds

Product	Unit	Quantity (thousands of unit specified)			Value (thousands of dollars)		
		1914	1925	1927	1914	1925	1927
<b>Total value</b> .....					<b>200, 196</b>	<b>1 636, 972</b>	<b>1 655, 319</b>
<b>Acids:</b>							
Acetic.....	Pound.....	70, 618	65, 592	76, 432	1, 272	4, 438	5, 524
Boric (boracic).....	do.....	8, 584	15, 605	21, 010	589	1, 202	1, 583
Carbonic.....	do.....	50, 446	59, 721	70, 467	2, 321	5, 128	6, 001
Citric.....	do.....	2, 658	7, 598	7, 058	1, 516	3, 470	3, 151
Hydrochloric (muriatic).....	Ton.....	85	155	162	1, 349	2, 976	3, 016
Mixed (sulphuric-nitric).....	do.....	43	61	61	2, 204	3, 767	3, 821
Nitric.....	do.....	15	27	29	1, 592	3, 560	3, 559
Oleic.....	Pound.....	21, 933	53, 276	55, 686	1, 301	5, 171	4, 778
Phosphoric.....	do.....	12, 420	21, 330	22, 397	680	1, 489	1, 682
Stearic.....	do.....	14, 351	26, 877	37, 277	1, 243	3, 379	3, 832
Sulphuric (basis 50° B).....	Ton.....	2, 338	4, 700	4, 972	15, 395	38, 230	42, 886
Sulphuric reclaimed (50° B for 1925 and 1927).....	do.....	136	210	191	519	1, 479	1, 089
Other acids.....	do.....	157	307	341	2, 856	4, 985	7, 255
Alums.....	Ton.....	( <sup>2</sup> )	16	20	3, 468	8, 735	9, 255
Aluminous abrasives.....	do.....	( <sup>2</sup> )	16	20	( <sup>2</sup> )	1, 789	1, 970
Other aluminum compounds.....	do.....	( <sup>2</sup> )	16	20	( <sup>2</sup> )	1, 057	2, 068
<b>Bleaching compounds:</b>							
Chlorine.....	Pound.....	12, 217	104, 960	180, 163	473	4, 236	6, 678
Hypochlorites (calcium, sodium).....	Ton.....	155	131	135	2, 916	5, 842	5, 589
Peroxide bleaches.....	Pound.....	32, 595	34, 696	30, 305	1, 303	3, 341	3, 079
Sulphur bleaches.....	do.....				610	3, 748	3, 629
<b>Coal-tar products:</b>							
Crudes.....	do.....				8, 065	{ 25, 403	24, 862
Intermediates.....	do.....					{ 25, 324	22, 844
Dyes and other finished products.....	do.....				5, 427	61, 474	58, 350
Gases, compressed and liquefied.....	do.....				10, 415	55, 532	( <sup>3</sup> )
<b>Nitrogen compounds:</b>							
Ammonia (aquea).....	Pound.....	35, 544	66, 228	46, 225	1, 412	3, 027	1, 260
Ammonia (anhydrous).....	do.....	16, 660	31, 725	45, 233	3, 141	6, 772	4, 011
Ammonium chloride.....	do.....	11, 512	( <sup>1</sup> )	( <sup>1</sup> )	641	( <sup>1</sup> )	( <sup>1</sup> )
Other ammonium compounds.....	do.....				472	5, 268	6, 325
Ferrie ferrocyanide.....	Pound.....	( <sup>2</sup> )	{ 4, 971	{ 4, 104	2, 399	{ 1, 620	1, 365
Other cyanides.....	do.....				1, 805	{ 5, 044	4, 946
Other nitrogen compounds.....	do.....					{ 7, 927	8, 178
From coke-oven operations not included in total value (Bureau of Mines)—							
Ammonium sulphate.....	do.....	( <sup>2</sup> )	986, 179	1, 225, 625	( <sup>2</sup> )	22, 465	23, 905
Liquor (NH <sub>3</sub> equivalent).....	do.....	( <sup>2</sup> )	47, 129	49, 011	( <sup>2</sup> )	4, 386	2, 335
<b>Plastics:</b>							
Pyroxylin, including collodion.....	Pound.....	( <sup>2</sup> )	47, 005	{ 16, 298	3, 778	27, 878	{ 14, 410
Finished articles of pyroxylin.....	do.....				5, 527	{ 10, 984	{ 6, 801
Rubber substitutes.....	Pound.....						
Artificial silk, viscra, cellophane, etc.....	do.....				4, 591	{ ( <sup>3</sup> )	{ ( <sup>3</sup> )
Other plastics.....	do.....					{ 9, 870	{ 6, 992
<b>Potassium compounds:</b>							
Bitartrate (cream of tartar).....	Pound.....	12, 696	7, 073	7, 595	3, 125	1, 472	1, 747
Iodide.....	do.....	( <sup>2</sup> )	495	528	4, 731	1, 821	1, 897
Other.....	do.....					2, 778	5, 663
<b>Sodium compounds:</b>							
Bichromate and chromate.....	Ton.....	12	28	31	1, 125	3, 527	3, 780
Biborate (borax).....	do.....	27	50	65	2, 072	4, 083	5, 079
Carbonates—							
Soda ash.....	do.....	935	1, 369	1, 466	10, 938	32, 244	29, 939
Sal soda (crystals).....	do.....	107	64	55	1, 510	1, 332	1, 371
Bicarbonate.....	do.....	90	123	121	1, 439	3, 652	3, 647
Modified sodas.....	do.....	( <sup>2</sup> )	47	54	( <sup>2</sup> )	1, 551	1, 828
Hydroxide (caustic).....	do.....	292	487	561	9, 105	27, 392	29, 193
Repacked caustic.....	do.....	( <sup>2</sup> )	27	21	( <sup>2</sup> )	4, 415	4, 128
Phosphates.....	do.....	15	80	97	853	5, 755	6, 985
Silicate.....	do.....	169	395	505	1, 649	5, 717	6, 826

<sup>1</sup> Not including value of rayon for 1925 and 1927 nor value of compressed and liquefied gases for 1927. (See footnote 3)

<sup>2</sup> No data.

<sup>3</sup> Treated as a separate industry, for gases compressed and liquefied, 1927, see Table 805.

<sup>4</sup> Included in other ammonium compounds.

<sup>5</sup> Data for pyroxylin solutions and thinners excluded for 1927 in this table but included under "Paint and Varnish" in Table 805

## No. 803.—CHEMICALS: PRODUCTS MADE FOR SALE—Continued

Product	Unit	Quantity (thousands of unit specified)			Value (thousands of dollars)		
		1914	1925	1927	1914	1925	1927
Sodium compounds—Continued.							
Sulphates—							
Salt cake.....	Ton.....	90	141	175	842	2,339	2,787
Glauber's salt.....	do.....	35	58	53	428	1,265	1,082
Thiosulphate (hypo).....	do.....	(2)	24	24	(2)	1,051	993
Other.....	do.....	(2)	104	123	(2)	529	744
Sulphide.....	do.....	20	24	38	517	1,203	1,692
Other.....					2,148	13,466	13,806
Miscellaneous.							
Acetone.....	Pound.....	10,426			1,100		
Barium compounds.....					361	1,498	1,607
Bismuth compounds.....					(2)	1,216	938
Calcium—							
Acetate.....	Ton.....	82	73	69	2,139	3,437	4,021
Arsenate.....	Pound.....	(2)	15,199	27,282	(2)	1,075	1,665
Carbide.....	Ton.....	(2)	128	202	(2)	6,599	9,398
Chloride.....	do.....	45	171	191	342	3,719	4,443
Hypochlorite.....	do.....	(2)	115	111	(2)	3,967	4,148
Phosphate.....	do.....	12	36	34	1,299	4,455	4,914
Other.....					(2)	893	2,658
Carbon bisulphide.....	Pound.....	(2)	39,875	44,972	(2)	1,934	2,160
Cobalt compounds and alloys.....					(2)	413	518
Copper sulphate (blue vitriol).....	Pound.....	37,152	32,297	56,667	1,599	1,684	2,774
Ethyl acetate.....	Gallon.....	(2)	2,907	4,607	(2)	2,407	3,701
Ferro-alloys (not blastfurnace).....	Ton.....	(2)	150	197	(2)	15,255	17,049
Formaldehyde.....	Pound.....	8,426	21,972	26,447	655	1,891	2,432
Glycerin (glycero) refined.....	do.....	59,810	94,303	89,585	10,779	16,991	19,185
Iron sulphate (copperas).....	Ton.....	46	53	62	353	603	673
Lead arsenate.....	Pound.....	8,642	11,938	21,528	512	1,778	3,190
Silver nitrate.....	Ounce.....	(2)	4,339	4,897	846	2,023	1,957
Sulphur, refined.....	Ton.....	31	47	44	1,141	2,121	1,799
Tin—							
Oxide.....	Pound.....	8,291	4,788	-----	2,029	2,905	10,583
Chloride.....	do.....		12,599	-----		3,832	
Other.....	do.....		-----	47		-----	
Vanillin.....	do.....	121	215	300	526	1,134	1,923
Zinc chloride.....	do.....		58,947	58,268	1,131	1,993	1,921
All other products.....					59,391	132,764	169,274
Intergroup duplications.....					13,269	49,398	21,858

<sup>1</sup> No data<sup>6</sup> Includes other silver salts<sup>7</sup> Includes other zinc compounds.

<sup>8</sup> Because of intergroup duplication the sum of the various products exceeds the total value of all products by this amount. For example, nitric acid is shown under "Acids" and is also included under "Other nitrogen compounds," likewise calcium hypochlorite is included in "Hypochlorites" under "Bleaching compounds" and is shown under "Calcium compounds"

No. 804.—NATURAL DYESTUFFS AND TANNING MATERIALS: PRODUCTION<sup>1</sup>

Product	Quantity (thousands of pounds)			Value (thousands of dollars)		
	1914	1925	1927	1914	1925	1927
<b>All products, total value.....</b>				<b>21,383</b>	<b>36,278</b>	<b>37,192</b>
<b>Natural dyestuffs:</b>						
Extracts.....	40,779	23,402	26,500	1,739	1,971	2,049
Ground, chipped, or dry.....	(2)	1,226	921	124	44	20
<b>Tanning extracts</b>						
Oak and chestnut.....	328,198	303,089	319,155	4,130	5,353	5,671
Hemlock.....	18,978	8,622	6,596	340	284	210
Sumac.....	4,512	4,212	5,525	130	261	277
Quebracho.....	109,597	82,385	124,557	2,945	2,395	3,010
Other.....					2,040	1,854
Other tanning materials.....				354	409	409
Mordants.....				392	985	959
<b>Sizes.</b>						
Dextrin.....	18,914	56,350	31,917	706	3,336	2,093
Rosin.....	20,717	146,359	157,691	373	5,498	5,860
Gum, other than rosin.....	3,832	44,358	16,042	205	2,279	920
Starches, glue, and other.....	(2)	28,422	30,980	1,769	1,592	2,405
Turkey red oil.....	11,682	14,338	15,580	820	1,552	1,560
Softeners and other assistants.....				717	3,224	3,622
All other products.....				6,689	5,055	6,264

<sup>1</sup> Products made in all industries, sometimes as by-products, are included.<sup>2</sup> No data

Source of Tables 803 and 804. Bureau of the Census, Department of Commerce

# No 805.—MISCELLANEOUS INDUSTRIES INVOLVING CHEMICAL PROCESSES: CENSUS STATISTICS OF PRODUCTS

NOTE.—Only major products of a fairly sharply defined character, and in general only those for which quantitative data are available are shown. See also chemicals (Table 803), petroleum refining (Table 778), manufactured gas (Table 707), etc. Semifinished products made for consumption in the same establishment are not included, except where otherwise stated, but there is some duplication in total value of products in certain branches, due to the use of such products as materials by other establishments in the same industry. Data include, except where otherwise stated, not only products of the major industry specified but also similar products made in other industries. Tons are of 2,000 pounds

Industry and product	Quantity (thousands of unit specified)				Value (thousands of dollars)		
	Unit	1914	1925	1927	1914	1925	1927
<b>BONE BLACK, CARBON BLACK, AND LAMPBLACK</b>							
All products, total value.....					2,972	17,189	16,369
Bone black.....	Pound..	44,509	64,135	59,356	1,532	2,540	2,524
Carbon black.....	do.....	22,869	177,417	198,429	918	9,640	10,955
Lampblack.....	do.....	( <sup>1</sup> )	12,032	8,800	504	1,435	1,040
All other products.....					18	3,574	1,850
<b>FERTILIZERS</b>							
All products, total value.....					169,018	214,809	198,923
Fertilizers.....	Ton.....	8,432	8,157	8,027	153,261	192,112	170,461
Complete and ammoniated fertilizers.....	do.....	5,612	5,058	5,163	121,677	146,606	130,310
Superphosphates for sale.....	do.....	1,693	2,639	2,435	{ 14,779 1,367 }	35,180	30,003
Concentrated phosphates for sale.....	do.....	88					
Other fertilizers.....	do.....	1,059	460	429	15,437	10,327	10,148
Sulphuric acid (basis 50%), total <sup>1</sup> .....	do.....	1,406	2,008	2,045			
Made for sale.....	do.....	129	633	775	769	4,812	6,158
Fish scrap.....	do.....	63	72	96	1,916	2,928	3,349
All other products.....					13,072	14,957	18,955
<b>ICE, MANUFACTURED</b>							
All products, total value.....					67,320	193,267	190,556
Ice.....							
Ice industry.....	Ton.....	18,325	38,813	39,058	55,258	180,782	178,639
Can ice.....	do.....	17,146	38,229	38,864	52,150	178,157	177,765
Plate ice.....	do.....	1,179	585	193	3,108	2,623	874
Other industries.....	do.....	2,718	1,850	1,229	6,934	6,298	5,761
All other products, etc.....					5,128	6,187	6,156
<b>PAINT AND VARNISH</b>							
All products, total value.....					149,173	511,768	558,947
Colors (pigments).....	Pound..	459,052	1,587,137	1,773,889	17,450	103,686	105,756
Paints in paste form.....	do.....	420,012	434,583	408,722	29,038	55,707	49,554
Ready mixed paints.....	Gallon..	41,043	87,640	94,071	41,691	158,376	165,664
Water paints and kalsomine, dry or in paste.....	Pound..	61,904	110,618	122,456	2,055	4,636	6,321
Varnishes, japans, and lacquer, including enamels.....	Gallon..	37,412	88,692	106,452	32,252	136,491	170,579
Fillers:							
Liquid.....	do.....	966	722	566	670	922	722
Paste and dry.....	Pound..	49,588	42,004	41,486	1,319	2,304	2,109
Putty.....	do.....	69,828	101,209	102,703	1,250	3,926	4,255
Bleached shellac.....	do.....	8,655	11,136	10,611	1,807	5,991	5,015
Other products.....					21,641	39,727	48,972
<b>SOAP</b>							
All products, total value.....					135,304	262,728	293,352
Hard soaps.....	Pound..	1,696,484	2,109,133	2,219,228	104,465	191,384	191,458
Toilet soaps.....	do.....	169,926	272,207	287,696		49,387	53,573
Soap chips.....	do.....	97,746	325,043	373,216		36,284	39,422
Laundry and foots soap.....	do.....	1,428,812	1,444,018	1,502,183		98,247	93,092
All other hard soaps.....	do.....		67,865	56,133		7,466	5,371
Powdered soaps.....	do.....		142,322	173,930	( <sup>1</sup> )	15,790	18,130
Soap powders, cleaners, cleansing, scouring, and washing powders.....	do.....	367,744	547,986	526,453		25,858	26,910
Soft soap.....	do.....	57,002	61,189	59,014	1,697	2,514	4,231
Liquid soap.....	do.....	( <sup>1</sup> )	22,047	24,934	( <sup>1</sup> )	2,122	3,241
Special soap articles <sup>2</sup> .....	do.....	( <sup>1</sup> )	52,836	63,708	833	3,932	4,902
Glycerin (for sale).....	do.....						
Crude.....	do.....	12,745	25,842		1,818	3,518	44,408
Refined.....	do.....	32,674	72,597		5,776	13,092	
Perfumes and toilet preparations <sup>2</sup> .....	do.....				6,805		
All other products.....					13,910	24,518	

<sup>1</sup> Data not available<sup>2</sup> Includes only output of industry specified above.

**No. 805.—MISCELLANEOUS INDUSTRIES INVOLVING CHEMICAL PROCESSES:**  
CENSUS STATISTICS OF PRODUCTS—Continued

Industry and product	Unit	Quantity (thousands of unit specified)			Value (thousands of dollars)		
		1914	1925	1927	1914	1925	1927
COMPRESSED AND LIQUEFIED GASES							
All products, total value.....					\$ 10,415	\$ 55,532	62,344
Acetylene.....	Cu ft.....	121,696	525,746	682,481	2,318	13,515	16,196
Hydrogen.....	do.....	1,669	150,502	103,714	17	877	742
Oxygen.....	do.....	104,714	2,073,826	2,359,896	1,829	22,877	23,987
Nitrous oxide (laughing gas).....	Gallon.....	17,838	54,882	66,392	213	729	810
Other gases.....					6,038	17,834	20,129
All other products.....					( <sup>1</sup> )	( <sup>1</sup> )	480

<sup>1</sup> Excludes "All other products"<sup>1</sup> Separate data not available

**No. 806.—LEATHER: PRODUCTION BY PRINCIPAL KINDS**

NOTE.—For value of products of the tanning industry see Table 797, p 801

Kind	1914	1923	1924	1925	1926	1927	1928
Sole leather, cattle...1,000 backs, bends, sides..	18,098	18,732	14,640	14,879	13,615	15,829	16,138
Belted leather...1,000 butts and butt bends..	974	1,471	1,231	809	809	929	847
Harness leather.....1,000 sides..	2,944	1,555	1,269	1,288	1,169	1,016	813
Bag case and strap leather.....do.....	1,005	1,200	1,056	1,175	1,183	1,105	812
Upholstery leather: <sup>1</sup>							
Whole-hide grains.....1,000 hides..	654	490	466	463	405	354	321
Machine buffed.....do.....	( <sup>2</sup> )	253	183	163	196	143	149
Whole hide splits.....1,000 pieces..	1,105	1,230	917	832	807	938	709
Upper leather (other than patent): <sup>1</sup>							
Cattle (including kip side).....1,000 sides..	8,258	18,571	14,320	15,338	15,476	13,459	11,485
Calf and kip.....1,000 skins..	15,869	18,004	15,981	13,621	14,943	16,150	14,975
Goat and kid.....do.....	29,875	46,537	34,641	40,887	48,415	49,417	52,862
Cabretta.....do.....	( <sup>2</sup> )	2,696	2,380	2,412	2,344	1,551	2,064
Sheep and lamb.....do.....	16,795	19,271	18,148	14,124	13,973	14,849	16,952
Patent leather (other than upholstery): <sup>1</sup>							
Cattle (including kip side).....1,000 sides..	1,791	5,656	8,854	8,628	7,459	8,388	7,831
Horse and colt.....1,000 half fronts..	1,259	1,080	802	684	610	416	425
Goat and kid.....1,000 skins..	3,615	446	865	991	504	430	734
Glove and garment leather: <sup>1</sup>							
Horse, colt, ass, and mule—							
Half fronts.....thousands..	614	930	1,000	1,146	1,009	1,459	1,500
Shanks.....do.....		1,619	1,165	1,011	1,143	1,154	1,301
Cabretta.....1,000 skins..	( <sup>2</sup> )	1,428	1,197	1,678	2,071	1,820	1,814
Sheep and lamb.....do.....	3,912	7,789	5,561	5,326	5,297	7,576	9,026
Fancy and bookbinders' leather: <sup>1</sup>							
Sheep and lamb.....1,000 skins..	3,605	2,987	2,847	1,984	2,369	2,825	3,201
Goat and kid.....do.....	( <sup>2</sup> )	291	338	541	664	717	1,116
Splits (other than upholstery) finished and rough.....1,000 pieces..	( <sup>2</sup> )	24,751	20,361	24,023	24,617	24,645	21,945

<sup>1</sup> Figures shown for principal kinds only<sup>2</sup> Not available<sup>3</sup> Reported as "fancy" only

**No. 807.—BOOTS AND SHOES: PRODUCTION**

NOTE.—In thousands of pairs. Detailed value data were not collected at the censuses. For total value of products of the industry see Table 797, p 801. Data for 1922 to 1928 compiled from monthly reports of manufacturers representing approximately 95 per cent of the total production in the United States

Year	Total	Men's	Boys' and youths'	Women's	Misses' and children's	Infants'	Athletic and sporting (leather)	Canvas and other textile	Not specified (including slippers)
1914.....	292,666	98,031	22,896	80,916	48,322	15,477	( <sup>1</sup> )	( <sup>1</sup> )	27,024
1919.....	331,225	95,017	26,504	104,813	48,538	16,669	586	11,056	28,042
1921.....	286,771	69,458	18,462	101,474	35,066	17,379	5,547	8,602	30,784
1922.....	323,876	89,984	21,632	105,368	39,444	23,939	8,448	6,739	28,323
1923.....	351,114	100,283	22,239	109,676	40,136	27,015	6,434	8,347	36,984
1924.....	313,230	84,663	20,274	104,135	35,694	23,823	5,863	6,260	32,529
1925.....	323,553	86,546	21,021	104,782	38,691	24,587	5,914	8,564	33,448
1926.....	324,514	86,644	21,111	110,447	38,577	24,041	5,318	4,790	33,586
1927.....	343,606	95,328	24,229	116,259	39,650	24,542	<sup>2</sup> 1,488	3,301	38,809
1928.....	344,351	90,970	23,032	123,753	37,135	23,835	<sup>2</sup> 1,547	3,760	40,319

<sup>1</sup> Not reported separately; included with "not specified, etc"<sup>2</sup> Excludes certain heavy footwear formerly classified as "athletic" but properly included with men's.

Source of Tables 805, 806, and 807: Bureau of the Census, Department of Commerce

## No. 808.—RUBBER-MANUFACTURING INDUSTRY: PRODUCTS

Product	Unit	Quantity (thousands of unit specified)			Value (thousands of dollars)		
		1914	1925	1927	1914	1925	1927
<b>All products, total value.....</b>					300, 894	1, 260, 805	1, 231, 970
Tires and inner tubes							
Pneumatic—							
Automobile and truck.....	Number	15, 929	136, 172	134, 405	125, 730	774, 727	739, 070
Motor cycle and bicycle.....	do.	3, 728	2, 512	3, 046	6, 906	3, 961	3, 695
Solid—							
Truck.....	do.	(1)	1, 035	813	(2)	43, 870	34, 985
All other.....	do.	(1)			13, 736	1, 991	1, 673
Boots, rubber.....	Pair	4, 024	4, 739	5, 362	12, 648	16, 028	16, 746
Shoes and overshoes, rubber.....	do.	57, 212	52, 339	71, 577	37, 858	80, 077	90, 994
Shoes, canvas, with rubber soles.....	do.	(1)	25, 000	28, 810	(1)	23, 818	25, 456
Heels, sold as such or on hand.....	do.	(1)	342, 196	318, 346	(1)	26, 092	25, 504
Soles, including composition or fiber.....	do.	(1)	36, 064	40, 820	(1)	10, 384	9, 341
Rubberized fabrics, sold as such or on hand							
Automobile and carriage.....	Yard	(1)	25, 232	17, 363	(1)	13, 873	11, 048
All other.....	do.	(1)	25, 840	38, 445	(1)	7, 760	15, 493
Belting.....					7, 989	23, 431	21, 947
Hose.....					16, 854	35, 644	41, 472
Packing.....					3, 508	4, 444	4, 853
Clothing.....					6, 799	7, 748	(3)
Druggists' and stationers' sundries.....					7, 512	18, 462	15, 732
Hard-rubber goods.....					(1)	29, 111	18, 891
All other manufactures of rubber.....					41, 384	113, 955	122, 206
Reclaimed rubber.....	Pound..	(1)	243, 852	330, 436	11, 135	28, 021	27, 373
All other products.....					8, 885	2, 358	5, 491

<sup>1</sup> Not reported for 1914.

<sup>2</sup> Included in "All other solid."

<sup>3</sup> Included in "All other manufactures of rubber"

Source: Bureau of the Census, Department of Commerce.

## No. 809.—PRINTING AND PUBLISHING: CENSUS STATISTICS

Publications	1914	1921	1923	1925	1927
	Value (thousands of dollars)				
<b>Total.....</b>	810, 508	1, 827, 809	2, 021, 956	2, 269, 638	2, 507, 428
Newspapers and periodicals, printed and published or published only.....	419, 210	1, 005, 270	1, 154, 786	1, 321, 611	1, 459, 688
Subscriptions and sales.....	163, 577	328, 283	360, 893	398, 338	429, 467
Advertising.....	255, 633	676, 987	793, 893	923, 273	1, 030, 221
Newspapers.....	283, 589	734, 321	803, 497	892, 094	977, 648
Periodicals, other than newspapers.....	135, 621	270, 949	351, 289	429, 517	482, 040
Newspapers and periodicals, printed for publication by others.....	8, 577	35, 301	36, 893	56, 488	54, 975
Books and pamphlets.....	87, 637	166, 663	178, 474	201, 708	232, 920
Sheet music and books of music.....	7, 626	14, 293	14, 163	14, 133	17, 147
Job printing, general, electrotyping, engraving, and lithographing.....	278, 401	566, 648	623, 047	669, 937	737, 021
Blank books.....	4, 153	7, 564			
All other products.....	4, 904	32, 070	13, 993	5, 761	5, 675
Aggregate circulation per issue					
Newspapers and periodicals:					
Daily.....	28, 777, 454	32, 341, 678	35, 733, 107	38, 039, 682	42, 343, 210
Sunday.....	16, 479, 943	20, 853, 355	24, 511, 693	25, 630, 056	27, 695, 859
Triweekly.....	549, 495	523, 872	431, 504	400, 730	468, 534
Semiweekly.....	2, 483, 628	1, 540, 206	2, 024, 683	1, 934, 095	2, 026, 760
Weekly.....	50, 336, 969	43, 521, 178	47, 860, 508	50, 815, 443	59, 864, 502
Monthly.....	79, 190, 838	83, 459, 144	91, 654, 028	111, 876, 937	116, 253, 751
Quarterly.....	18, 853, 901	21, 745, 216	22, 197, 913	22, 840, 186	21, 192, 184
All other classes.....	8, 922, 684	6, 962, 012	7, 629, 173	8, 450, 308	8, 156, 399

Source: Bureau of the Census, Department of Commerce.

## No. 810.—ENGINES, WATER TURBINES, TRACTORS, AND LOCOMOTIVES

[Value in thousands of dollars]

Class	1914	1921	1923	1925	1927
Total.....	131, 019	242, 526	407, 038	310, 556	387, 026
Steam engines.....	21, 784	30, 357	26, 765	24, 411	22, 573
Reciprocating marine.....	1, 300	5, 916	1, 170	636	1, 703
Reciprocating stationary and portable.....	11, 822	8, 775	12, 882	7, 962	5, 406
Stationary turbines.....	8, 662	12, 342	10, 328	14, 055	14, 499
Marine turbines.....	( <sup>1</sup> )	2, 321	( <sup>1</sup> )	( <sup>1</sup> )	965
Not reported as to type.....	( <sup>1</sup> )	1, 003	2, 385	1, 758	-----
Internal-combustion engines (not including tractors).....	45, 314	74, 699	110, 752	117, 894	141, 161
Diesel and semi-Diesel type—					
Marine.....	}	8, 273	14, 013	{ 7, 353	{ 7, 062
Other.....				{ 15, 875	{ 13, 347
Other internal-combustion engines—					
Marine.....					
Stationary.....	}	7, 570	7, 604	{ 8, 833	{ 7, 370
Detachable.....				{ 2, 561	{ 5, 553
Motor vehicle <sup>3</sup> .....	11, 623	31, 005	59, 074	55, 624	63, 636
Other stationary and portable.....	5 26, 121	5 27, 817	29, 173	27, 648	34, 699
Aircraft engines <sup>4</sup> .....					9, 494
Tractors and traction engines.....	17, 651	53, 169	78, 320	102, 905	136, 950
Tractors, internal-combustion.....	}	53, 169	{ 76, 427	{ 102, 647	{ 136, 837
Traction engines, steam.....			{ 1, 893	{ 258	{ 113
Tractor trucks (semtractors).....					7 2, 172
Water turbines.....	3 3, 633	4 4, 624	6, 732	5, 338	5, 441
Engines and turbines not specified as to kind of power.....				9 13, 707	414
Locomotives, steam.....	42, 637	79, 677	184, 469	46, 301	58, 315

<sup>1</sup> No data.<sup>2</sup> Not reported separately, included with stationary and portable internal-combustion engines.<sup>3</sup> Excluding engines built for installation in motor vehicles manufactured in the same establishments.<sup>4</sup> Includes some aviation engines for 1923 and 1925 and a few motor-cycle engines for 1923.<sup>5</sup> Includes data for motor-cycle and aviation engines for 1914 and 1921, and for Diesel engines for 1914.<sup>6</sup> Excluding engines built for installation in aircraft manufactured in the same establishment. Data prior to 1927 included with motor vehicle and other stationary and portable engines (see footnotes 4 and 5).<sup>7</sup> Reported with "Engines and turbines," etc., for 1925<sup>8</sup> Includes data for a small number of water motors not reported separately.<sup>9</sup> Reported as secondary products by establishments in other industries

Source Bureau of the Census, Department of Commerce

## No. 811.—MACHINERY: VALUE OF THE PRINCIPAL CLASSES MANUFACTURED

NOTE.—Values in thousands of dollars. The various classes of machinery listed are products of a number of industries, such as "foundry and machine-shop products," "agricultural implements," "aircraft," "cash registers and calculating machines," "dairymen's, poultrymen's, and apiculturists' supplies," "electrical machinery, apparatus, and supplies," etc. This table is not an industry presentation, but a special presentation giving value of products for groups designated. The values are in part duplicated in other tables in this abstract, such as Tables 810, 812, 813, and 814

Class	1914	1921	1923	1925	1927
Adding and calculating machines and parts.....	14, 734	30, 016	51, 996	51, 289	1 53, 182
Agricultural machinery.....	64, 866	58, 136	82, 130	85, 471	129, 595
Aircraft.....	481	5, 069	9, 077	8, 102	14, 505
Bakers' machinery and equipment.....	2, 555	10, 560	14, 451	17, 212	20, 015
Blowers and fans.....	( <sup>2</sup> )	12, 518	14, 386	16, 210	20, 433
Bottling machinery.....	1, 359	6, 642	5, 969	10, 139	11, 584
Clay-working machinery (brick, pottery, etc.).....	2, 439	3, 772	5, 508	5, 298	4, 308
Canning machinery.....	( <sup>2</sup> )	5, 139	9, 691	9, 766	7, 339
Cars and trucks, industrial and mining.....	( <sup>2</sup> )	( <sup>2</sup> )	17, 919	24, 267	21, 741
Cash registers and parts.....	15, 935	23, 944	44, 382	42, 326	1 40, 345
Cement and concrete machinery.....					
Cement-making machinery.....	( <sup>2</sup> )	( <sup>2</sup> )	3, 680	4, 146	4, 619
Cement and concrete-block machinery.....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	1, 451	656
Concrete mixers.....	( <sup>2</sup> )	( <sup>2</sup> )	13, 602	12, 620	12, 674
Other cement and concrete machinery.....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	5, 604	2, 584
Condensers.....	( <sup>2</sup> )	( <sup>2</sup> )	4, 588	4, 938	5, 899
Confectionery and ice-cream machinery.....	( <sup>2</sup> )	5, 157	5, 029	5, 143	5, 682
Conveying machinery:					
Bucket type.....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	14, 717	10, 726
Belt type.....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	8, 601	10, 520
Other.....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	7, 370	12, 282



# No. 811.—MACHINERY: VALUE OF THE PRINCIPAL CLASSES MANUFACTURED—Continued

[Values in thousands of dollars]

Class	1914	1921	1923	1925	1927
Cotton gins.....	4,902	2,721	7,175	12,808	9,543
Cranes (including hoists and derricks).....	<sup>(3)</sup>	20,445	42,197	43,936	44,454
Dairy, cheese-factory, and butter-factory machinery.....	12,998	17,759	16,486	16,177	16,536
Dredging and excavating machinery.....					
Power shovels.....	<sup>(2)</sup>	12,858	23,684	26,609	32,106
Other.....	2,969	4,991	16,622	19,232	19,776
Electrical machinery.....	50,601	89,800	128,384	134,513	140,497
Elevators and elevator machinery.....	17,228	40,931	52,516	47,430	43,152
Engines (steam or internal-combustion) and water wheels.....	93,635	186,488	266,285	317,255	359,607
Flour-mill and grain-mill machinery.....	<sup>(3)</sup>	8,663	9,084	7,946	7,967
Gas machines and apparatus.....	4,426	4,554	7,243	6,242	5,082
Glass-making machinery.....	1,091	4,088	2,651	2,666	3,085
Hydraulic machinery.....					
Hydraulic rams.....	<sup>(3)</sup>	<sup>(3)</sup>	<sup>(3)</sup>	218	480
Other.....	<sup>(3)</sup>	<sup>(3)</sup>	<sup>(3)</sup>	4,720	2,456
Laundry machinery.....	7,565	12,983	19,077	24,198	27,204
Lawn mowers.....	2,848	6,401	8,258	8,047	9,269
Leather-working machinery, other than shoe.....	1,066	2,526	2,575	2,222	2,000
Locomotives (steam, electric, and internal-combustion) <sup>4</sup> .....	43,374	90,111	104,673	58,359	70,300
Machine tools.....	<sup>(2)</sup>	<sup>(3)</sup>	89,964	91,459	107,032
Metal-working machinery, other than machine tools.....	<sup>(3)</sup>	<sup>(3)</sup>	<sup>(3)</sup>	47,353	41,459
Meters, gas and water.....	11,638	18,181	2,339	24,502	24,978
Mining machinery, other than oil-well.....	13,254	30,290	<sup>6</sup> 47,590	34,827	35,259
Motion-picture cameras and projectors.....	<sup>(2)</sup>	2,869	2,631	4,620	8,345
Motor cycles and bicycles.....	15,919	12,710	20,752	15,906	13,804
Motor vehicles, except motor cycles.....	458,761	1,326,120	2,611,735	2,946,821	2,540,714
Oil-mill machinery, cottonseed, and other.....	1,878	1,472	3,037	4,132	24,978
Oil-well machinery.....	10,569	27,415	52,158	47,299	62,276
Ore crushers.....	<sup>(2)</sup>	3,322	4,862	3,252	2,893
Packing-house machinery.....	<sup>(2)</sup>	4,133	5,441	5,370	8,918
Paper-mill and pulp-mill machinery.....	8,588	31,581	18,736	21,209	27,098
Pneumatic machinery (other than pneumatic tools) <sup>5</sup> .....					
Air compressors.....	5,158	15,729	27,762	29,473	29,319
Other pneumatic machinery.....	<sup>(2)</sup>	<sup>(3)</sup>	<sup>(2)</sup>	1,109	867
Printing machinery.....	19,228	54,870	68,630	67,056	63,240
Pumps and pumping equipment.....	<sup>8</sup> 27,457	<sup>8</sup> 69,255	92,815	121,299	121,557
Refrigerating machinery.....	10,522	33,174	36,542	62,593	110,246
Road-making machinery.....	3,545	17,858	24,264	26,297	27,728
Rubber-working machinery.....	2,726	8,003	6,849	10,164	9,951
Scales and balances.....	<sup>(2)</sup>	15,885	21,836	23,691	22,166
Sewing machines, cases, cabinets, attachments, and parts.....	27,238	35,608	42,993	45,131	43,179
Shoe machinery.....	5,959	9,482	10,663	11,769	12,334
Slot-vending machines.....	<sup>(2)</sup>	2,466	3,777	4,202	7,059
Stokers, mechanical.....	<sup>(2)</sup>	7,161	14,095	9,420	10,213
Sugar-mill machinery.....	1,972	12,075	9,112	8,643	6,601
Textile machinery and parts.....	<sup>(2)</sup>	115,167	127,406	109,354	102,200
Transmission machinery.....	<sup>(2)</sup>	<sup>(2)</sup>	1,359	15,350	18,246
Typewriters and parts.....	20,517	33,361	39,521	50,190	151,942
Vacuum cleaners.....	2,059	21,726	36,870	40,285	36,972
Washing machines, clothes wringers, driers, and ironing machines for domestic use.....	<sup>(2)</sup>	32,444	57,551	70,761	73,847
Well-drilling machinery, other than oil-well.....	<sup>(2)</sup>	1,353	1,074	1,843	1,545
Windmills and windmill towers.....	<sup>(3)</sup>	3,953	4,636	5,682	4,555
Woodworking machinery.....	13,393	25,682	44,447	39,620	29,569

<sup>1</sup> Figures not strictly comparable with earlier years which include value of parts and attachments, for 1927 figures represent only value of machines

<sup>2</sup> Not reported separately.

<sup>3</sup> No comparable data

<sup>4</sup> Excluding steam boilers made for sale as separate units

<sup>5</sup> Includes steam locomotives only for 1914, for 1921 and later years, steam, gasoline, and electric locomotives.

<sup>6</sup> Not strictly comparable with figures for other years due to changes in classification

<sup>7</sup> Includes machinery used for converting paper into boxes, bags, etc., for 1921, but not for other years.

<sup>8</sup> Not strictly comparable with figures for 1923, 1925, and 1927, includes power pumps and equipment only for 1914 and 1921, for 1923, 1925, and 1927 also includes hand pumps

Source: Bureau of the Census, Department of Commerce.

### No. 812.—METAL-WORKING MACHINERY (INCLUDING MACHINE TOOLS): PRODUCTION

NOTE.—This table includes data for all establishments reporting the production of metal-working machinery, both as a primary and a secondary product

Kind	Number			Value (thousands of dollars)		
	1919	1925	1927	1919	1925	1927
<b>Metal-working machinery, total value</b> -----				(1)	138, 812	148, 491
Machine tools-----				179, 747	91, 459	107, 032
Metal-working machinery, other than machine tools-----				(1)	47, 353	41, 459
<b>Machine tools:</b>						
Bending machines-----	153	307	439	942	642	369
Boring machines-----	1, 433	802	598	3, 768	3, 032	3, 352
Broaching machines-----	549	435	255	1, 395	540	372
Cutting-off machines-----	(2)	1, 786	2, 056	(3)	497	602
Drilling machines-----	16, 642	(3)	6, 891	11, 430	7, 046	7, 745
Forging machines-----	(2)	85	738	(2)	779	2, 481
Gear-cutting machines-----	2, 688	1, 271	1, 267	5, 845	4, 258	4, 417
Grinding machines-----	(3)	(3)	5, 965	15, 803	10, 734	12, 250
Hammers, stationary-----	38, 335	855	324	4, 952	829	560
Lathes-----	29, 031	(3)	11, 067	37, 475	16, 345	18, 750
Milling machines-----	11, 480	(3)	2, 978	18, 526	6, 489	8, 545
Pipe cutting and threading machines-----	4, 118	2, 637	2, 281	2, 481	1, 305	1, 344
Planers-----	1, 482	193	196	8, 129	1, 105	1, 867
Portable tools-----	(3)	(3)	(3)	10, 908	11, 896	16, 802
Presses-----	35, 786	(3)	(3)	6, 357	7, 995	8, 770
Punching machines (stationary)-----	(2)	1, 034	587	(2)	1, 910	802
Riveting machines (stationary)-----	(2)	(3)	1, 338	(2)	687	664
Screw machines (automatic)-----	6, 227	2, 301	1, 810	9, 625	5, 919	5, 209
Shapers-----	4, 515	1, 125	986	4, 231	1, 615	1, 629
Shears (power)-----	1, 367	1, 892	1, 771	1, 566	1, 351	1, 308
Slotters-----	(2)	62	86	(2)	405	1, 182
Threading machines (excepting pipe)-----	(2)	(3)	(3)	(2)	839	1, 613
All other machine tools-----	(3)	(3)	(3)	31, 314	5, 241	7, 399
<b>Metal-working machinery, other than machine tools:</b>						
Rolling-mill machines-----	(1)	(1)	(3)	(1)	15, 001	14, 447
Sheet-metal working machines-----	(1)	(1)	(3)	(1)	17, 468	17, 545
Welding machines-----	(1)	(1)	(3)	(1)	1, 176	1, 795
Wire-drawing machines-----	(1)	(1)	(3)	(1)	870	2, 263
Wire-working machines-----	(1)	(1)	(3)	(1)	2, 142	
Other metal-working machines-----	(1)	(1)	(3)	(1)	10, 896	5, 409

<sup>1</sup> No comparable data, due to changes in classification

<sup>2</sup> Not reported separately

<sup>3</sup> Data incomplete

Source Bureau of the Census, Department of Commerce

### No. 813.—ELECTRICAL MACHINERY, APPARATUS, AND SUPPLIES: VALUE OF PRODUCTS, BY CLASSES

NOTE.—All figures except number, kilovolt-amperes, and kilowatts in thousands of dollars Includes subsidiary products of establishments classed under other industries

Product	1914	1921	1923	1925	1927
Total value-----	359, 432	884, 594	1, 377, 515	1, 653, 550	1, 753, 596
<b>Generators (not specified elsewhere)</b>					
Alternating current—					
Number-----	1 2, 512	1, 687	1, 975	2, 098	2, 856
Kilovolt-amperes (thousands)-----	1 1, 188	2, 994	(2)	3, 674	3, 632
Value-----	1 7, 437	15, 513	18, 508	17, 899	18, 335
Direct current—					
Number-----	2 9, 633	5, 691	10, 308	15, 972	16, 559
Kilowatts (thousands)-----	221	185	(2)	(2)	(2)
Value-----	2 2, 967	2, 923	4, 235	5, 317	4, 503

# No. 813.—ELECTRICAL MACHINERY, APPARATUS, AND SUPPLIES: VALUE OF PRODUCTS BY CLASSES—Continued

[All figures in thousands of dollars]

Product	1914	1921	1923	1925	1927
Automotive generators and motors for charging, lighting, and starting.....	4 5,933	27,443	54,007	56,221	58,128
Self-contained power and lighting outfits.....	( <sup>5</sup> )	4,043	7,685	11,143	9,598
Transformers, induction-voltage regulators, and current-limiting reactors.....	14,514	42,103	59,115	62,153	66,804
Motor-generator sets and dynamotors.....	5,368	6,311	7,305	8,264	6,764
Control apparatus, railway, vehicle, motor, and other.....	4 8,395	19,551	33,177	31,303	34,181
Electric locomotives (mining, industrial, and railway).....	3,721	9,397	8,865	10,331	9,640
Stationary motors (not fan), total.....	27,594	58,078	84,778	92,648	97,673
Fractional horsepower.....	7 1,191	16,907	23,939	28,249	33,903
One horsepower and over—					
Direct current.....	9,800	9,358	13,865	15,797	15,628
Alternating current.....	16,604	31,814	46,973	48,602	48,142
Railway and vehicle motors, not including automotive starter-motors.....	7,234	6,974	10,586	7,515	10,528
Electric fans.....	4,836	8,611	9,914	10,896	10,755
Motor parts and supplies.....	4,512	9,394	13,825	12,947	14,167
Storage batteries, parts and supplies.....	13,081	48,558	92,843	110,212	97,808
Primary batteries.....	9,522	14,609	21,446	40,982	46,238
Primary battery parts and supplies.....	800	3,716	3,776	4,054	6,293
Carbons Electrodes for lighting and furnaces, brushes, and specialties.....	3,603	5,528	14,746	13,955	14,364
Incandescent lamps.....	17,350	59,723	71,066	73,558	87,933
Telegraph apparatus.....	4 202	244	2,086	2,922	5,561
Telephone apparatus.....	22,816	101,992	92,368	81,510	115,452
Fire-alarm apparatus.....	1,254	2,404	2,640	3,490	3,611
Radio apparatus, including tubes.....	4 792	10,648	54,000	176,990	198,436
Household apparatus and appliances					
Vacuum cleaners, portable.....	( <sup>5</sup> )	19,753	35,982	39,971	36,222
Flatirons.....	1,467	4,731	8,199	7,998	7,917
Cooking utensils.....	4 1,327	3,164	5,486	7,921	11,668
Ranges, disk stoves, and hot plates.....	4 671	4 1,795	3,677	7,901	12,119
Radiators and radiant heaters.....	( <sup>5</sup> )	1,151	1,862	2,028	1,370
Electric measuring instruments.....	8,787	21,033	28,221	31,650	34,133
Switchboards, panel boards, cabinets, circuit breakers, and switches.....	4 15,383	36,299	57,856	69,759	71,924
Magneto-generators.....		4,065	10,304	9,930	7,708
Spark plugs.....	22,261	10,013	13,660	13,878	13,372
Coils.....		6,511	7,868	7,837	8,467
Insulated wires and cables.....	69,506	98,333	184,472	210,617	210,048
Searchlights, flood lights, motion-picture, photo-engraving, and stage projectors.....	2,082	1,943	2,479	2,801	4,561
Railway signals and attachments.....	( <sup>5</sup> )	1,620	4,466	14,030	22,340
Fuses, cut-outs and fuse plugs.....	1,757	4,483	9,245	10,393	10,891
Wiring devices.....	4 7,580	21,806	34,906	34,806	32,703
Lightning arresters and choke coils.....	1,189	2,044	3,834	5,961	6,327
Electric railway line materials.....	( <sup>5</sup> )	2,691	8,796	4,240	5,446
Conduits, underground and interior.....	4,875	19,346	37,500	46,330	42,133
Electric-signaling apparatus (other than railway).....	675	6,444	7,142	5,081	6,365
Electrotherapeutic apparatus, exclusive of X-ray tubes and motor-driven devices.....	2,653	6,820	5,991	9,788	13,802
All other.....	57,290	152,779	237,610	275,321	277,249

<sup>1</sup> Figures not comparable with those for later years because of change in classification, synchronous condensers and frequency changers reported with rotating converting apparatus for 1914

<sup>2</sup> No comparable data

<sup>3</sup> Not comparable with figures for later years, exclude generators under 10 kilowatts (See note 4)

<sup>4</sup> Not comparable with figures for later years, includes generators under 10 kilowatts, not used as automotive generators

<sup>5</sup> Not reported separately

<sup>6</sup> Not strictly comparable with figures for later years because of changes in classification

<sup>7</sup> Reported as motors for miscellaneous uses

<sup>8</sup> Reported as "stoves and ranges" in 1914 and as "ranges" in 1921

<sup>9</sup> Not strictly comparable with preceding years, includes interior conduits only

<sup>10</sup> Includes "All other" products made in electrical establishments and \$95,490,897, the value of custom work and repairs.

Source. Bureau of the Census, Department of Commerce.

## No. 814.—FARM EQUIPMENT: PRODUCTION

NOTE.—For all wagons see Table 816, for all tractors see Table 810

Class	Number				Value (thousands of dollars)			
	1925	1926	1927	1928	1925	1926	1927	1928
All products, total value.....					391,812	461,400	460,881	522,655
<b>Plows and listers.....</b>					25,937	33,148	29,477	31,991
Moldboard plows.....	541,393	630,189	525,446	537,297	12,050	18,812	14,812	15,388
Disk plows.....	20,424	24,250	21,425	25,952	1,769	2,220	2,396	3,119
Listers.....	38,826	56,087	35,690	34,785	1,525	2,232	1,536	1,608
Other plows.....	14,650	14,743	13,988	16,268	210	300	1,686	2,396
Attachments and parts, incl plow stocks and steel plow shapes.....					8,383	9,584	9,045	9,480
<b>Harrows, rollers, pulverizers, and stalk cutters.....</b>					10,179	15,553	13,868	14,592
Disk harrows.....	95,714	141,964	122,680	133,287	5,135	8,062	7,051	7,453
Spike-tooth harrow sections.....	176,951	315,844	242,459	279,712	1,431	2,219	1,725	1,924
Spring-tooth harrow sections.....	109,464	117,757	117,434	130,029	1,000	1,316	1,242	1,494
Stalk cutters.....	6,934	11,722	10,400	10,456	309	448	377	396
Other, incl attachments and parts.....					2,304	3,508	3,473	3,325
<b>Planting and fertilizing machinery.....</b>					20,890	26,591	24,560	25,953
Corn planters, one and two row.....	59,830	72,242	55,927	54,093	2,717	3,383	2,601	2,676
Combined corn and cotton planters.....	62,927	74,248	44,529	34,595	2,050	2,205	1,098	883
Combined listers and drills.....	20,203	22,908	9,231	5,289	1,990	1,671	674	430
Grain drills.....	32,582	47,113	58,629	72,287	3,567	5,275	6,638	8,721
Broadcast seeders.....	78,552	77,439	78,512	72,275	484	654	679	618
Manure spreaders.....	53,839	67,322	67,722	62,414	6,329	8,245	8,298	7,345
Other, incl attachments and parts.....					4,353	5,158	4,572	5,290
<b>Cultivators and weeders.....</b>					17,871	20,311	14,296	15,873
1-horse.....	155,539	136,454	132,244	156,648	822	755	698	821
1-row.....	174,267	215,345	121,237	126,269	6,700	8,138	4,405	4,680
2-row.....	50,471	64,723	41,307	37,507	4,107	5,239	3,504	3,191
Hand cultivators (wheeled hoes).....	125,048	143,832	147,065	133,214	1,897	506	447	413
Other cultivators and weeders.....	118,788	64,195	58,189	91,883	1,575	2,398	2,917	3,975
Attachments and parts.....					4,070	3,395	2,325	2,643
<b>Harvesting machinery.....</b>					28,886	46,007	57,819	67,293
Grain binders.....	42,405	79,155	71,091	67,099	6,650	12,134	10,831	10,610
Grain headers.....	2,857	7,200	4,621	(1)	665	1,677	1,103	(1)
Combines (harvester-threshers).....	5,131	11,760	18,307	25,392	7,284	15,863	26,885	35,693
Corn binders.....	20,829	26,449	21,423	21,174	2,933	3,641	2,933	2,943
Potato diggers.....	6,621	10,134	15,780	19,930	399	586	1,008	1,290
Other harvesting machinery.....	24,135	22,394	19,983	27,250	3,047	2,500	2,630	5,457
Attachments and parts.....					7,408	9,606	11,934	11,300
<b>Haying machinery.....</b>					16,457	13,951	15,387	16,058
Mowers.....	112,299	112,259	110,644	121,935	6,042	5,988	6,007	6,503
Rakes.....	87,616	72,537	86,489	87,644	3,364	3,025	3,590	3,647
Loaders.....	15,746	19,793	25,102	24,895	1,243	1,630	2,018	2,034
Other haying machinery.....	9,794	10,128	7,041	9,028	633	389	363	479
Attachments and parts.....					4,175	2,916	3,409	3,395
<b>Machines for preparing crops for market or use.....</b>					28,488	34,127	32,329	33,428
Threshers.....	14,923	17,830	16,595	19,314	14,151	17,361	15,044	16,874
Ensilage and fodder cutters.....	14,612	14,802	15,280	14,740	2,143	2,197	2,088	2,099
Corn shellers.....	43,886	44,713	47,396	48,915	1,187	1,219	1,168	1,493
Corn huskers and shredders.....	2,225	3,581	2,448	1,423	1,219	1,775	1,150	710
Hay presses.....	3,192	3,457	3,325	3,674	1,108	1,061	1,072	1,082
Feed grinders and crushers.....	98,051	108,752	104,755	101,333	1,565	1,915	2,049	2,540
Other machines.....	54,273	80,225	72,197	164,975	2,039	2,435	2,513	1,755
Attachments and parts.....					5,056	6,164	7,245	6,875
<b>Farm tractors.....</b>					121,050	145,813	159,581	191,978
Wheeled types <sup>1</sup> .....	167,553	181,995	200,504	175,934	83,407	100,813	102,463	114,697
Tracklaying type.....	161,493	174,223	190,155	156,731	17,441	22,024	27,720	48,211
Attachments and parts.....	6,060	7,772	10,819	19,203	20,202	23,076	29,348	29,070
<b>Horse-drawn vehicles.....</b>					17,488	13,658	8,884	9,782
Farm wagons.....	108,477	74,693	50,810	56,114	10,225	6,887	4,427	4,849
Farm trucks.....	63,177	57,291	48,278	60,769	2,876	2,415	1,926	2,434
Buggies.....	20,486	8,854	7,019	4,269	1,872	756	612	403
All other (incl 2-wheeled carts).....	12,081	13,903	13,223	11,767	3,320	337	360	232
Attachments and parts.....					2,195	3,263	1,559	1,844
<b>Miscellaneous equipment.....</b>					108,266	112,141	105,230	115,916
Stalls, stanchions, and stock pens.....					2,759	2,616	2,743	2,877
Stock tanks and waterers.....	185,713	250,978	305,065	353,736	2,028	1,953	1,895	2,020
Cream separators.....	170,505	194,270	191,906	203,857	7,839	9,229	8,098	9,673
Internal-combustion engines (farm).....	182,415	177,247	131,610	140,833	12,383	12,910	8,619	9,016
Windmills and windmill towers.....	155,507	133,011	120,597	150,456	5,682	4,670	4,555	5,550
Other, incl attachments and parts.....					77,575	80,763	79,320	86,780

<sup>1</sup> Not reported separately to avoid disclosing operations of individual establishments<sup>2</sup> Including motor cultivators

Source Bureau of the Census, Department of Commerce.

## No. 815.—MUSICAL INSTRUMENTS AND PHONOGRAPHS: PRODUCTION

Industry and product	Number			Value (thousands of dollars)		
	1923	1925	1927	1923	1925	1927
<b>MUSICAL INSTRUMENTS AND MATERIALS</b>						
All products, total value.....				175, 336	170, 742	131, 066
Pianos: <sup>1</sup>						
Upright.....	105, 748	87, 285	69, 864	21, 675	16, 874	12, 262
Upright, player.....	170, 549	143, 831	76, 447	46, 296	38, 167	20, 028
Upright player, reproducing type.....	12, 658	5, 476	4, 096	4, 649	2, 193	1, 420
Grand—						
Baby.....	38, 024	40, 357	43, 772	16, 101	16, 244	17, 541
Baby, player.....	6, 769	12, 884	7, 713	5, 429	8, 360	5, 856
Parlor.....	5, 899	9, 170	8, 747	3, 835	5, 433	5, 320
Parlor, player.....	2, 737	2, 699	1, 226	3, 065	3, 631	1, 726
Concert.....	666	579	293	932	453	290
Automatic and electric.....	4, 539	4, 303	3, 574	2, 380	2, 322	1, 640
Organs—						
Pipe.....	1, 712	1, 955	2, 451	9, 654	12, 808	16, 667
Reed.....	7, 772	4, 360	3, 091	538	442	385
Band and orchestral instruments						
Wind instruments.....				7, 812	9, 478	8, 395
Brass.....				7, 305	8, 846	6, 550
Wood.....				507		1, 845
Stringed instruments.....				3, 469	5, 859	4, 201
Percussion and other instruments (chimes, xylophones, drums, bells, traps, etc.).....				2, 288	2, 886	2, 715
Perforated music rolls.....				5, 262	6, 068	3, 217
Pneumatic player actions for installation in player pianos and cabinet player attachments made separate from pianos.....				14, 693	14, 782	6, 608
Parts and materials for musical instruments other than pianos and organs.....				1, 851	1, 867	1, 992
Orchestrons.....				38		
Organ parts and materials, for sale as such.....				1, 265	1, 842	1, 810
Piano parts and materials, for sale as such.....				17, 695	15, 223	13, 828
All other products.....				4, 894	4, 157	3, 350
Receipts for custom work, repairing, etc.....				1, 515	1, 653	1, 815
<b>PHONOGRAPHS <sup>1</sup></b>						
All products, total value.....				107, 311	61, 057	95, 296
Phonographs:	Thou-	Thou-	Thou-			
For disk records.....	sands	sands	sands			
All other <sup>2</sup> .....	978	642	1, 048	55, 395	22, 614	49, 242
	20			1, 642		
Disk records.....	92, 855	82, 125	104, 766	35, 714	26, 791	31, 486
Cylinder records and blanks.....	5, 249		(4)	658		295
Needles, parts, and all other.....				13, 902	11, 652	14, 273

<sup>1</sup> Excludes subsidiary products reported by establishments engaged primarily in other industries, which amounted to \$1,301,787 in 1923, \$3,603,378 in 1925, and \$3,089,298 in 1927.

<sup>2</sup> Dictating machines and other phonographs using cylinder records.

<sup>3</sup> Includes data for combination phonographs and radios to avoid disclosing production of individual establishments

<sup>4</sup> Number not reported for 1927

Source: Bureau of the Census, Department of Commerce.

## No. 816.—VEHICLES AND AIRCRAFT: PRODUCTION

Industry and product	Number			Value (thousands of dollars)		
	1914	1925	1927	1914	1925	1927
<b>MOTOR VEHICLES</b>						
Motor-vehicle industry, total value of products.....				503,230	3,198,123	2,848,443
Motor vehicles made in motor-vehicle industry.....	568,781	4,176,519	3,354,805	458,761	2,951,921	2,546,807
Other products of motor-vehicle industry.....				44,469	246,202	301,636
Motor vehicles made in other industries.....	<sup>1</sup> 4,288	1,728	967	<sup>2</sup> 6,297	730	1,119
Total motor vehicles, incl. chassis and trailers.....	<sup>3</sup> 573,039	4,178,247	3,355,772	<sup>4</sup> 465,058	2,952,651	2,547,926
Passenger vehicles.....	543,881	3,581,240	2,826,274	414,542	2,527,575	2,175,545
Touring, open.....	451,032	1,095,186	211,278	345,973	516,206	113,305
Roadsters, runabouts, and sport (speedsters), open.....	81,597	390,062	197,880	45,890	180,845	116,100
Closed.....		2,080,697	2,407,160		1,786,834	1,917,344
Public conveyances (cabs, etc.).....	11,098	15,295	8,968	22,350	43,690	27,982
All other.....	154		988	329		814
Government and municipal vehicles.....	728	1,233	1,599	3,941	10,488	11,521
Business vehicles.....	24,172	341,811	329,673	40,278	287,248	258,404
Delivery cars.....	4,391	35,976	60,981	4,750	24,080	33,883
Trucks.....	19,519	303,824	266,492	34,741	257,804	220,050
All other.....	262	2,011	2,200	787	5,359	4,471
Chassis.....	( <sup>5</sup> )	240,790	178,487	( <sup>6</sup> )	121,616	95,244
Passenger.....	( <sup>5</sup> )	87,780	56,074	( <sup>6</sup> )	39,919	27,156
Business.....	( <sup>5</sup> )	153,010	122,413	( <sup>6</sup> )	81,597	68,088
Trailers.....	( <sup>5</sup> )	12,823	19,739	( <sup>6</sup> )	4,937	7,212
Tractors <sup>1</sup> .....	( <sup>5</sup> )	350		( <sup>6</sup> )	892	
<b>MOTOR CYCLES, BICYCLES, AND PARTS</b>						
All products.....				22,234	25,319	22,013
Motor cycles.....	62,154	39,350	35,197	12,162	8,876	8,001
Bicycles.....	299,029	303,446	255,456	3,757	7,031	5,803
Parts, repairs, and all other products.....				6,315	9,412	8,209
<b>CARS, STEAM AND ELECTRIC RAILROAD <sup>2</sup></b>						
All products.....				205,271	390,771	312,509
Steam.....						
Passenger (day coaches only).....	1,653	532	967	19,607	11,991	22,621
Sleeping, baggage, express, etc., in passenger service.....	1,792	1,539	998	24,404	42,949	29,759
Box.....	50,481	49,230	19,845	40,953	101,024	45,319
Flat.....	4,781	2,306	1,656	3,120	3,225	2,838
Gondolas.....	25,077	21,402	10,479	22,809	42,002	20,023
Hopper.....	9,754	3,243	8,734	10,708	5,870	19,917
Refrigerator.....	5,800	4,704	9,004	8,077	14,741	25,633
Stock.....	3,929	3,310	1,016	2,587	5,877	1,882
Tank.....	1,250	5,396	5,455	1,255	10,702	10,449
Other varieties.....	16,584	4,420	2,520	6,709	8,800	6,946
Electric.....						
Passenger.....	2,335	1,753	1,194	8,076	19,030	19,320
Other varieties.....	207	81	98	714	419	438
All other products, including repairs.....				56,252	124,141	107,364
<b>CARRIAGES AND WAGONS</b>						
All products.....				109,657	28,019	22,648
Wagons.....	572,409	211,418	125,704	36,533	16,400	8,495
Carriages and buggies.....	550,401	20,646	7,019	34,193	1,884	612
Other conveyances.....	54,605	4,054	6,611	1,557	2,147	3,011
All other products, parts, repairs, etc.....				37,373	9,152	10,549
<b>AIRCRAFT</b>						
All products.....					12,775	21,614
Airplanes.....	( <sup>5</sup> )	711	1,883	( <sup>6</sup> )	5,908	12,225
Seaplanes.....	( <sup>5</sup> )	78	107	( <sup>6</sup> )	765	2,280
Under construction at close of year.....	( <sup>5</sup> )	259		( <sup>6</sup> )	1,429	
Parts and engines for sale as such.....				( <sup>6</sup> )	3,795	5,087
All other products, including repairs.....				( <sup>6</sup> )	878	2,072

<sup>1</sup> Exclusive of tractors which were included with "Other products, etc.," for 1927<sup>2</sup> The numbers and values of the complete vehicles manufactured in 1914 by establishments in the bodies and parts branch and in other industries are included in the totals but not in the distribution by class<sup>3</sup> Not reported separately<sup>4</sup> Figures refer only to tractors manufactured by establishments engaged primarily in the manufacture of motor vehicles, included in "Other products, etc.," for 1927. For total production of tractors, see Table 810<sup>5</sup> Not including cars built or repair work done by railroad companies<sup>6</sup> Figures not available

Source: Bureau of the Census, Department of Commerce.

## No. 817.—COTTON SPINDLES, COTTON CONSUMPTION, AND STOCKS

NOTE.—The statistics for 1915 to 1923 relate to the 12 months ended July 31 and those for prior years to the 12 months ended Aug. 31. South refers to cotton growing States. Consumption is expressed in running bales, counting round as half bales, except that all figures, 1840 to 1870, inclusive, and foreign cotton in all years are in equivalent 500-pound bales. The number of active spindles represents spindles operated for any time, however short, during the year, and is therefore an unsatisfactory measure of activity of the industry.

Year	Cotton spindles (thousands)					Spindles using cotton with other fibers (thousands)	Cotton consumed, excluding lint-ers <sup>1</sup> (thousands of bales)			
	Total in place	Active					Total	The South	New Eng-land	Other States
		Total	The South	New Eng-land	Other States					
1840.....	( <sup>2</sup> )	2,285	181	1,597	506	( <sup>2</sup> )	237	71	159	7
1850.....	( <sup>2</sup> )	3,998	265	2,959	775	( <sup>2</sup> )	576	78	431	67
1860.....	( <sup>2</sup> )	5,236	324	3,859	1,053	( <sup>2</sup> )	845	94	567	184
1870.....	( <sup>2</sup> )	7,132	328	5,498	1,306	( <sup>2</sup> )	797	69	551	177
1880.....	( <sup>2</sup> )	<sup>1</sup> 10,653	<sup>1</sup> 561	<sup>1</sup> 8,632	<sup>1</sup> 1,460	( <sup>2</sup> )	<sup>1</sup> 1,570	<sup>1</sup> 189	<sup>1</sup> 1,129	<sup>1</sup> 252
1890.....	( <sup>2</sup> )	14,384	1,570	10,934	1,880	( <sup>2</sup> )	2,518	539	1,502	477
1900.....	( <sup>2</sup> )	19,472	4,368	13,171	1,933	( <sup>2</sup> )	3,873	1,523	1,909	440
1905.....	( <sup>2</sup> )	23,687	7,631	14,203	1,853	( <sup>2</sup> )	<sup>4</sup> 4,279	<sup>4</sup> 2,140	<sup>4</sup> 1,753	<sup>4</sup> 386
1910.....	28,929	28,267	10,494	15,735	2,038	( <sup>2</sup> )	4,622	2,234	1,995	393
1911.....	30,804	29,523	11,085	16,511	1,927	456	4,498	2,249	1,882	367
1912.....	31,583	30,579	11,583	17,140	1,856	500	5,129	2,636	2,076	417
1913.....	32,150	31,520	12,227	17,311	1,981	455	5,483	2,862	2,178	445
1914.....	32,744	32,108	12,711	17,408	1,988	414	5,577	2,925	2,219	433
1915.....	32,841	31,964	12,956	17,101	1,908	895	5,597	3,027	2,149	421
1916.....	33,333	32,806	13,382	17,474	1,950	405	6,398	3,528	2,389	481
1917.....	34,221	33,889	14,156	17,761	1,972	453	6,789	3,888	2,415	486
1918.....	34,941	34,543	14,529	17,985	2,029	447	6,566	3,697	2,402	467
1919.....	35,443	34,931	14,846	18,066	2,019	429	5,766	3,199	2,165	402
1920.....	35,834	35,481	15,231	18,287	1,963	402	6,420	3,583	2,397	440
1921.....	36,618	36,047	15,709	18,388	1,951	336	4,893	2,997	1,614	282
1922.....	36,946	35,708	15,906	17,939	1,863	314	5,910	3,730	1,823	357
1923.....	37,409	36,260	16,310	18,054	1,896	289	6,666	4,248	2,049	369
1924.....	37,804	35,849	16,944	17,066	1,839	258	5,681	3,858	1,535	288
1925.....	37,929	35,032	17,292	15,975	1,765	251	6,193	4,220	1,639	334
1926.....	37,586	34,750	17,574	15,526	1,650	243	6,456	4,500	1,628	328
1927.....	36,606	34,410	17,894	14,995	1,521	235	7,190	5,194	1,675	321
1928.....	35,540	33,570	18,282	13,815	1,473	232	6,834	5,114	1,438	282

Yearly average or year	Consumption (thousands of bales)						Stocks in consuming establishments at end of year (thousands of bales)			
	Total, exclud- ing linters	Domestic			Foreign	Linters	Total, exclud- ing linters	Do- mestic	Foreign	Linters
		Total	Upland	Sea Island						
1906-1910.....	<sup>1</sup> 4,829	<sup>1</sup> 4,680	<sup>1</sup> 4,595	<sup>1</sup> 62	149	<sup>7</sup> 163	<sup>1</sup> 731	<sup>1</sup> 673	58	739
1911-1915.....	5,257	5,051	4,976	75	206	293	822	738	84	86
1916-1920.....	6,388	6,105	6,034	71	282	734	1,452	1,352	100	179
1921-1925.....	5,869	5,577	5,568	9	292	599	1,003	911	92	139
1911.....	4,498	4,323	4,259	64	175	207	499	417	81	43
1912.....	5,129	4,922	4,827	95	208	238	818	733	85	53
1913.....	5,483	5,250	5,196	55	233	303	718	638	80	60
1914.....	5,577	5,383	5,301	82	194	307	676	612	64	75
1915.....	6,398	5,875	5,296	79	222	412	1,401	1,292	109	199
1916.....	6,789	6,080	5,998	83	317	881	1,632	1,490	143	100
1917.....	6,789	6,470	6,276	94	318	870	1,502	1,408	94	113
1918.....	6,566	6,382	6,297	86	164	1,119	1,465	1,403	63	138
1919.....	5,766	5,590	5,539	51	176	458	1,303	1,253	51	267
1920.....	6,420	6,003	5,960	43	417	342	1,355	1,208	150	277
1921.....	4,893	4,677	4,658	19	216	516	1,111	1,021	90	201
1922.....	5,910	5,613	5,604	9	297	639	1,218	1,127	91	139
1923.....	6,666	6,322	6,316	6	344	646	1,100	981	118	127
1924.....	5,681	5,353	5,348	5	328	537	722	638	84	101
1925.....	6,193	5,917	5,914	4	276	659	866	787	79	129
1926.....	6,456	6,176	6,174	2	280	804	1,097	1,011	86	144
1927.....	7,190	6,880	6,879	1	310	806	1,405	1,325	80	199
1928.....	6,834	6,535	6,534	1	299	780	1,012	935	77	159

<sup>1</sup> Includes linters for 1840 to 1905.<sup>2</sup> Figures not available.<sup>3</sup> Cotton mills only.<sup>4</sup> Does not include foreign cotton.<sup>5</sup> Includes linters for 1906 to 1908.<sup>6</sup> Average, 1907 to 1910.<sup>7</sup> Average, 1909 and 1910.

Source. Bureau of the Census, Department of Commerce

## No. 818.—COTTON SPINDLE HOURS AND COTTON CONSUMPTION

NOTE.—Per cent of capacity represents ratio between (1) the actual number of spindle hours including overtime, double shifts, and part time, and (2) the total number of spindles in place multiplied by the number of hours per month in a single shift at normal full working time Consumption includes both domestic and foreign cotton

Month	Spindle hours (millions)					Spindle hours—per cent of capacity				
	1924	1925	1926	1927	1928	1924	1925	1926	1927	1928
Total.....	80, 275	94, 600	97, 029	104, 450	92, 748	78. 5	92. 9	95. 4	104. 7	97. 1
January.....	8, 347	8, 554	8, 356	8, 554	8, 283	95. 5	97. 2	98. 6	102. 0	101. 0
February.....	7, 100	7, 893	8, 121	8, 239	7, 970	87. 3	100. 5	103. 2	106. 5	101. 3
March.....	7, 077	8, 614	9, 169	9, 638	8, 310	82. 4	100. 0	102. 2	109. 8	96. 8
April.....	6, 776	8, 520	8, 345	8, 788	7, 415	80. 0	100. 2	98. 2	105. 6	94. 8
May.....	5, 908	7, 832	7, 503	8, 986	7, 966	67. 5	93. 8	88. 9	108. 9	95. 1
June.....	5, 344	7, 686	7, 006	9, 191	7, 252	64. 6	89. 2	88. 4	109. 3	88. 4
July.....	5, 183	7, 310	6, 750	8, 033	6, 251	60. 3	84. 6	78. 7	99. 1	79. 7
August.....	5, 434	6, 935	7, 487	8, 971	7, 431	63. 0	80. 1	87. 4	102. 9	87. 7
September.....	6, 472	7, 107	8, 257	8, 776	6, 961	76. 4	83. 8	98. 5	106. 6	90. 6
October.....	7, 655	7, 963	8, 367	8, 728	8, 694	86. 2	89. 5	98. 9	105. 0	103. 9
November.....	7, 143	7, 825	8, 483	8, 690	8, 524	87. 8	96. 0	101. 3	106. 7	108. 1
December.....	7, 841	8, 261	8, 585	7, 859	7, 711	90. 7	99. 4	100. 7	93. 9	99. 1

Source: Bureau of the Census, Department of Commerce.

## No. 819.—COTTON SPINDLE ACTIVITY AND CONSUMPTION BY STATES

NOTE.—All data except as specified are for years ended July 31. See headnote Table 818

Section and State	Cotton spindles in place (thousands)			Spindle hours (millions)			Cotton consumed, excluding linters (thousands of bales)				
	Aug. 31, 1911	July 31, 1927	July 31, 1928	1925-26	1926-27	1927-28	1911-1915, average	1916-1920, average	1921-1925, average	1926-27	1927-28
United States.....	30, 804	36, 696	35, 540	93, 941	102, 605	96, 451	5, 257	6, 388	5, 869	7, 190	6, 834
The South.....	11, 657	18, 169	18, 508	58, 518	65, 865	65, 273	2, 740	3, 579	3, 811	5, 194	5, 114
New England.....	17, 045	16, 872	15, 463	31, 541	33, 052	27, 862	2, 101	2, 354	1, 732	1, 675	1, 438
Other States.....	2, 102	1, 655	1, 569	3, 882	3, 688	3, 316	416	455	326	321	282
Alabama.....	968	1, 524	1, 628	4, 785	5, 085	5, 213	275	361	385	570	552
Connecticut.....	1, 270	1, 167	1, 122	2, 441	2, 544	2, 567	127	138	106	104	106
Georgia.....	1, 981	2, 969	3, 080	9, 315	10, 270	10, 735	589	812	840	1, 153	1, 168
Maine.....	1, 067	1, 118	1, 108	2, 140	2, 117	1, 991	170	184	159	136	122
Massachusetts.....	10, 613	10, 542	9, 350	18, 938	20, 116	18, 785	1, 269	1, 432	1, 023	973	790
New Hampshire.....	1, 463	1, 430	1, 414	2, 572	2, 745	2, 591	292	297	206	232	207
New Jersey.....	483	379	379	957	757	730	56	48	43	36	35
New York.....	964	873	802	1, 921	1, 922	1, 704	199	232	168	162	140
North Carolina.....	3, 354	6, 199	6, 192	19, 953	23, 002	22, 045	840	1, 129	1, 197	1, 640	1, 584
Pennsylvania.....	280	120	114	310	259	221	48	46	29	27	24
Rhode Island.....	2, 527	2, 469	2, 326	5, 217	5, 197	4, 633	232	290	228	219	204
South Carolina.....	4, 187	5, 403	5, 492	18, 826	21, 428	21, 102	743	875	941	1, 245	1, 229
Tennessee.....	253	588	602	1, 663	1, 945	2, 124	74	103	108	151	158
Virginia.....	373	711	709	1, 771	1, 839	1, 660	85	106	112	130	120
All other States.....	1, 021	1, 204	1, 224	3, 132	3, 379	3, 350	258	335	325	411	395

Source: Bureau of the Census, Department of Commerce.



# No. 820.—EXPLOSIVES: AMOUNTS (EXCLUDING EXPORTS) MANUFACTURED AND SOLD, CALENDAR YEARS

NOTE.—Black blasting powder in thousands of kegs of 25 pounds each; other figures in thousands of pounds.  
 "Permissible" explosives are those approved by the Bureau of Mines as suitable for use in coal mines

Kind and use	1915	1921	1922	1923	1924	1925	1926	1927	1928
<b>Black blasting powder</b>	7,909	6,401	7,155	8,078	6,683	6,279	6,307	5,268	4,870
Railway and other construction work	290	164	310	370	341	332	301	248	317
Coal mining	6,701	5,613	6,190	7,020	5,625	5,297	5,444	4,503	4,036
Metal mining <sup>1</sup>						138	114	86	84
Quarrying and nonmetallic mineral mining <sup>1</sup>						240	236	231	202
Other mining	268	185	168	175	144				
All other purposes	650	439	487	513	572	221	212	199	231
<b>High explosives other than "permissible"</b>	235,829	170,952	209,476	267,405	273,323	286,435	310,518	303,480	292,785
Railway and other construction work	22,280	18,317	22,434	31,930	40,647	39,916	44,982	48,266	50,767
Coal mining	22,384	34,232	25,498	37,829	36,608	26,947	35,229	34,173	30,077
Metal mining <sup>1</sup>						102,623	110,374	102,122	96,088
Quarrying and nonmetallic mineral mining <sup>1</sup>						71,501	76,186	78,506	74,820
Other mining	109,129	50,977	78,074	105,004	103,836				
All other purposes	82,036	67,426	83,470	92,642	92,231	45,448	43,747	40,413	41,032
<b>"Permissible" explosives</b>	27,350	41,134	43,430	60,371	55,134	58,353	67,685	63,847	60,708
Railway and other construction work	140	263	154	324	265	263	242	216	158
Coal mining	21,842	38,056	40,198	56,807	52,147	52,256	65,143	60,942	57,261
Metal mining <sup>1</sup>						3,533	216	191	231
Quarrying and nonmetallic mineral mining <sup>1</sup>						838	581	536	1,243
Other mining	4,688	882	1,453	783	515				
All other purposes	681	1,934	1,625	2,457	2,207	1,463	1,503	1,962	1,814

<sup>1</sup> Prior to 1925 included with "Other mining" and "All other purposes"

# No. 821.—EXPLOSIVES: AMOUNTS (EXCLUDING EXPORTS) MANUFACTURED IN THE UNITED STATES AND SOLD IN EACH STATE, CALENDAR YEAR, 1928

NOTE.—See headnote to Table 820

State of sale	Black blasting powder	High explosives other than "permissible"	"Permissible" explosives	State of sale	Black blasting powder	High explosives other than "permissible"	"Permissible" explosives
	Kegs <sup>1</sup>	Pounds	Pounds		Kegs <sup>1</sup>	Pounds	Pounds
<b>Total</b>	4,870,335	292,785,010	60,707,757	Montana	76,259	6,641,155	18,700
Alabama	84,707	7,518,850	4,012,275	Nebraska	2,096	396,585	
Alaska	1,102	2,378,175	132,300	Nevada	30,575	4,337,300	
Arizona	37,208	12,928,655	100	New Hampshire	649	280,875	
Arkansas	73,714	3,351,255	145,465	New Jersey	267	3,618,230	300
California	102,382	16,600,539	3,100	New Mexico	14,558	3,418,875	400,850
Colorado	72,859	5,336,720	743,645	New York	14,284	14,336,820	67,350
Connecticut	594	1,897,150		North Carolina	11,340	3,248,285	14,300
Delaware	64	76,325		North Dakota	28,712	220,350	47,650
Florida	11,001	4,625,963		Ohio	301,617	10,053,506	160,100
Georgia	15,481	1,342,525	2,000	Oklahoma	92,367	8,836,199	300,757
Idaho	10,422	4,784,815		Oregon	31,670	5,627,690	1,000
Illinois	721,975	8,076,900	3,268,950	Pennsylvania	938,853	40,277,895	32,545,975
Indiana	399,576	3,951,775	669,000	Rhode Island	166	150,450	
Iowa	170,009	3,162,800	50	South Carolina	4,567	1,061,672	
Kansas	142,590	6,937,034	208,169	South Dakota	889	1,208,105	62,000
Kentucky	474,264	5,186,186	2,815,662	Tennessee	105,920	4,658,090	252,500
Louisiana	8	5,010,715	103,750	Texas	60,720	8,233,113	72,900
Maine	2,202	814,025		Utah	23,331	8,526,810	1,002,605
Maryland <sup>2</sup>	19,432	1,306,375	128,200	Vermont	5,128	546,700	
Massachusetts	1,527	2,099,925		Virginia	69,358	3,846,350	839,050
Michigan	6,359	19,392,560	3,500	Washington	53,520	11,623,075	707,014
Minnesota	24,812	13,214,900		West Virginia	449,815	4,980,025	10,733,410
Mississippi	1,419	1,473,034		Wisconsin	3,300	5,012,453	
Missouri	108,502	8,627,920	62,780	Wyoming	68,135	1,549,341	1,122,350

<sup>1</sup> Kegs of 25 pounds each

<sup>2</sup> Includes District of Columbia

Source of Tables 820 and 821 Bureau of Mines, Department of Commerce.

## No. 822.—FERMENTED LIQUORS AND DISTILLED SPIRITS PRODUCED

Year ended June 30—	Distilled spirits			Fermented liquors	Year ended June 30—	Distilled spirits			Fermented liquors
	Ex-clusive of fruit brandy	Fruit brandy	Total			Ex-clusive of fruit brandy	Fruit brandy	Total	
	1,000 tax galls. <sup>1</sup>	1,000 tax galls. <sup>1</sup>	1,000 tax galls. <sup>1</sup>	1,000 barrels. <sup>2</sup>		1,000 tax galls. <sup>1</sup>	1,000 tax galls. <sup>1</sup>	1,000 tax galls. <sup>1</sup>	1,000 barrels. <sup>2</sup>
1905-----	147,811	5,449	153,259	<sup>3</sup> 49,522	1921-----	86,366	1,531	87,896	<sup>4</sup> 9,220
1910-----	156,238	7,656	163,894	<sup>3</sup> 59,545	1922-----	81,086	1,077	82,163	<sup>4</sup> 6,348
1915-----	132,134	8,522	140,656	<sup>3</sup> 59,808	1923-----	123,208	1,417	124,626	<sup>4</sup> 5,269
1916-----	249,124	4,159	253,283	<sup>3</sup> 58,634	1924-----	136,682	847	137,530	<sup>4</sup> 4,891
1917-----	277,884	8,251	286,085	<sup>3</sup> 60,817	1925-----	166,951	548	167,498	<sup>4</sup> 5,119
1918-----	173,476	5,357	178,834	<sup>3</sup> 50,266	1926-----	203,166	644	203,810	<sup>4</sup> 4,856
1919-----	98,976	1,802	100,779	<sup>3</sup> 27,713	1927-----	185,133	338	185,472	<sup>4</sup> 4,882
1920-----	99,616	1,649	101,265	<sup>3</sup> 9,231	1928-----	170,103	412	170,515	<sup>4</sup> 4,162

<sup>1</sup>In computing taxable gallons all fractional parts of a gallon less than one-tenth are excluded.

<sup>2</sup>Of not more than 31 gallons

<sup>3</sup>Includes fermented liquors removed from breweries for export free of tax.

<sup>4</sup>This item represents cereal beverages containing less than one-half of 1 per cent alcohol by volume.

## No. 823.—DENATURED ALCOHOL

Year ended June 30—	Alcohol produced at industrial alcohol plants <sup>1</sup>	Denaturing plants	Ethyl alcohol withdrawn for denaturation	Denatured alcohol produced		
				Completely denatured	Specially denatured	Total
	Proof gallons		Proof gallons	Wine gallons	Wine gallons	Wine gallons
1913-----		21	16,953,553	5,223,241	4,605,418	9,831,659
1915-----		23	25,411,719	5,308,647	3,599,822	13,968,469
1917-----		44	93,762,423	10,308,619	45,170,673	55,679,598
1918-----		49	90,644,723	10,328,455	39,834,561	50,163,016
1919-----		45	60,399,309	9,976,721	28,294,219	38,270,940
1920-----	18,933,551	52	45,640,949	13,528,403	15,307,947	28,836,350
1921-----	85,068,776	67	38,812,139	12,392,595	9,990,230	22,388,825
1922-----	79,906,102	77	59,549,920	16,193,524	17,152,224	33,345,748
1923-----	122,402,850	76	105,819,405	27,128,230	30,436,913	57,565,143
1924-----	135,897,726	83	121,576,196	34,602,004	33,085,292	67,687,296
1925-----	166,165,518	91	148,970,221	46,983,970	34,824,303	81,808,273
1926-----	202,271,670	97	191,670,107	65,881,442	39,494,444	105,375,886
1927-----	184,323,017	94	170,633,437	56,093,748	39,354,933	95,448,677
1928-----	169,149,905	82	159,689,378	46,966,601	45,451,424	92,418,026

<sup>1</sup>Separate accounts for alcohol produced at industrial alcohol plants required commencing May 1, 1920

## No. 824.—LEAF TOBACCO: AMOUNTS CONSUMED IN THE MANUFACTURE OF CIGARS, CIGARETTES, CHEWING AND SMOKING TOBACCO, AND SNUFF

NOTE.—All figures in thousands of pounds. Figures are unstemmed equivalent of all tobacco, stemmed, unstemmed, and scrap. Beginning with 1922 the Commissioner of Internal Revenue converted stemmed tobacco used in the manufacture of cigars and cigarettes to unstemmed at the ratio of 3 pounds stemmed to 4 pounds unstemmed. In previous years conversion was at the ratio of 3 to 5. In the following table figures are given on the new basis beginning 1918. On the old basis the quantity used for cigars in 1918 was calculated at 162,277,000 pounds and that for cigarettes at 177,379,000 pounds

Calendar year or yearly average	Total	Cigars	Ciga- rettes	Tobacco and snuff	Calendar year	Total	Cigars	Ciga- rettes	Tobacco and snuff
1896-1900-----	352,350	87,851	16,235	248,264	1920-----	621,864	168,597	146,907	306,360
1901-1905-----	435,194	124,411	12,444	298,339	1921-----	587,391	143,228	158,336	285,827
1906-1910-----	495,849	139,206	22,079	334,563	1922-----	619,517	151,709	169,597	298,211
1911-1915-----	549,474	133,560	54,225	341,669	1923-----	662,064	159,753	200,395	301,916
1916-1920-----	661,633	168,366	155,828	337,440	1924-----	669,103	153,413	217,700	297,990
1921-1925 <sup>1</sup> -----	646,035	151,421	198,031	296,545	1925-----	692,099	149,001	244,315	298,783
1913-----	558,415	163,006	56,559	338,871	1926-----	712,557	152,372	267,584	292,602
1917-----	658,066	169,576	133,508	354,984	1927-----	721,450	152,510	290,464	278,482
1918-----	664,974	149,837	146,056	369,081	1928 <sup>2</sup> -----	728,785	150,650	308,232	269,903
1919-----	625,862	151,503	166,783	307,576					

<sup>1</sup>Figures are given on new basis, previous yearly averages are on old basis

<sup>2</sup>Estimated.

Source of Tables 822, 823, and 824. Reports of the Commissioner of Internal Revenue, Treasury Department.

## No. 825.—PRODUCTION OF MANUFACTURED TOBACCO

NOTE.—Compiled from monthly returns of manufacturers. Data relate to products manufactured in continental United States, excluding those manufactured in bonded manufacturing warehouses, which amounted in 1928 to 27,624,115 cigars, 9,233,184,744 cigarettes, and 1,710,896 pounds of smoking and chewing tobacco. Large cigars, and cigarettes are those weighing more than 3 pounds per thousand

Calendar year or yearly average	Tobacco and snuff (thousands of pounds)						Cigars (thousands)		Cigarettes (thousands)	
	Total	Plug	Twist	Fine out	Smoking	Snuff	Large	Small	Large	Small
1901-1905.....	346,841	175,981	( <sup>1</sup> )	11,903	138,402	20,556	6,513,095	716,720	7,143	3,227,602
1906-1910.....	413,054	167,460	13,524	12,525	192,700	26,845	6,883,272	1,069,501	16,113	6,192,571
1911-1915.....	437,346	158,529	15,017	10,795	222,265	31,140	7,087,530	1,063,654	15,695	14,802,416
1916-1920.....	456,584	159,869	14,346	9,758	237,808	34,805	7,364,937	810,327	26,026	41,565,670
1921-1925.....	609,457	115,445	10,105	6,972	239,151	37,735	6,691,913	557,300	16,704	65,903,991
1913.....	443,875	164,339	14,894	10,935	220,810	32,898	7,571,508	959,409	15,106	15,555,693
1920.....	412,630	138,563	11,766	8,651	219,271	34,849	8,096,759	633,222	28,039	47,430,105
1921.....	336,951	113,384	9,261	6,893	222,723	34,690	6,726,095	670,483	14,518	52,085,012
1922.....	419,506	120,174	10,943	6,892	243,355	38,136	6,722,354	632,907	17,450	55,763,023
1923.....	412,777	120,798	10,665	7,141	234,944	39,228	6,950,247	505,305	18,066	66,715,830
1924.....	414,173	111,477	9,902	6,731	246,990	39,029	6,597,677	530,714	16,054	72,808,989
1925.....	413,873	111,391	9,750	7,151	247,740	37,841	6,463,193	447,089	17,429	82,247,100
1926.....	410,596	109,766	9,179	6,985	246,439	38,227	6,498,641	412,315	13,240	92,096,974
1927.....	396,324	103,918	7,988	6,286	237,934	40,197	6,519,006	439,419	11,432	99,809,032
1928 <sup>2</sup> .....	384,114					40,665	6,453,068	419,886	10,801	106,915,966

State	Number of factories Jan 1, 1928, making—			Production in 1927 (calendar year)					
	Tobacco and snuff	Cigars	Cigarettes	Tobacco and snuff (1,000 pounds)	Cigars (thousands)		Cigarettes (thousands)		
					Large	Small	Large	Small	
Total.....	1,329	7,974	136	396,324	6,519,005	439,419	11,432	99,809,032	
California.....	35	253	10	118	70,987		40	4,184,164	
Connecticut.....	13	158		56	37,345				
Delaware.....	1	12		2,388	42,446				
Florida.....	10	290	2	6	559,373			4,676	
Illinois.....	149	889	7	35,035	95,276	40	254	3,550	
Indiana.....	45	203		370	136,049				
Iowa.....	40	161		253	25,483				
Kentucky.....	48	65	1	33,719	82,356			673,790	
Louisiana.....	58	45	1	111	77,134			4,787	
Massachusetts.....	31	233	10	402	108,126		186	5,366	
Michigan.....	37	231	3	15,004	287,482		1	9,265	
Minnesota.....	37	177		81	27,966				
Missouri.....	18	204	2	55,332	37,709		1	30,860	
Nebraska.....	16	47		43	15,159				
New Jersey.....	26	244	4	9,645	655,841	1,009	1	3,185,050	
New York.....	307	1,689	66	7,902	522,637	10,188	10,570	9,000,224	
North Carolina.....	17	24	7	122,065	19,176	47,082		58,911,587	
Ohio.....	98	501		59,461	515,625	16	4	1,742	
Pennsylvania.....	163	1,140	12	4,277	2,205,357	92,625	236	4,135,484	
Tennessee.....	19	34		19,843	97,094				
Virginia.....	18	42	8	18,079	425,166	190,937	141	19,655,549	
West Virginia.....	10	46	1	11,146	79,153			633	
All other.....	126	1,151	2	988	346,066	97,521		2,806	

<sup>1</sup> Twist included with plug prior to 1906. <sup>2</sup> Estimates based on sale of stamps by collectors' offices.  
Source: Annual Report of the Commissioner of Internal Revenue.

## No. 826.—CONSUMPTION OF TOBACCO IN THE UNITED STATES

NOTE.—All figures except per capita in thousands of pounds. Leaf tobacco used in manufacture given on "new basis." See headnote, Table 824

	1922	1923	1924	1925	1926	1927	1928
Leaf tobacco consumed in manufacture:							
In registered factories.....	619,517	662,064	669,103	692,099	712,557	721,456	728,785
In bond.....	29,379	34,305	28,589	18,519	19,059	16,073	28,132
Manufactured tobacco imported:							
From Porto Rico.....	3,312	3,878	3,535	4,151	3,564	2,967	3,088
Other countries.....	3,116	5,037	3,894	4,001	3,859	3,498	3,264
Exports of manufactured tobacco.....	41,066	41,907	37,060	29,726	33,834	26,358	40,216
Remaining for consumption.....	614,258	663,377	668,061	689,044	705,205	717,636	723,053
Per capita consumption—pounds.....	5.59	5.94	5.87	5.97	6.02	6.05	6.02

Sources: Leaf tobacco used in registered factories from reports of the Commissioner of Internal Revenue; leaf tobacco used in bonded factories from reports of the Division of Customs, Treasury Department.

## No. 827.—BUILDING PERMITS ISSUED IN PRINCIPAL CITIES

NOTE.—Figures cover new buildings and repairs to old buildings, but exclude data for installation permits (those for installing boilers, signs, etc.) which are not strictly building operations. These permits are rather numerous, but in value they are of small amount. The number figures represent the number of buildings covered by permits issued (new construction and repairs, etc.) rather than the number of permits. The cities shown include all cities having a population of 50,000 or over in 1920 and some cities having a population of 25,000 or over. The estimated cost of buildings authorized in 257 identical cities since 1921 is as follows: 1921, \$1,573,000,000; 1922, \$2,489,000,000; 1923, \$3,072,000,000; 1924, \$3,208,000,000; 1925, \$3,805,000,000; 1926, \$3,557,000,000; 1927, \$3,138,000,000; 1928, \$2,995,000,000. Buildings authorized by permit are not always actually constructed, and the actual cost of those constructed may differ considerably from that originally estimated.

City and State	Total number of buildings					Proposed cost of buildings				
	1924	1925	1926	1927	1928	1924	1925	1926	1927	1928
Akron, Ohio.....	4,290	5,351	5,024	5,495	5,356	1,000 dollars	1,000 dollars	1,000 dollars	1,000 dollars	1,000 dollars
Albany, N. Y.....	6,764	5,492	2,992	2,684	2,226	8,759	14,454	15,983	20,196	19,485
Allentown, Pa.....	1,458	1,585	1,766	1,663	1,556	12,499	14,704	23,754	16,189	14,894
Altoona, Pa.....	1,787	1,709	1,548	1,480	1,313	5,344	8,687	9,218	6,588	5,935
Atlanta, Ga.....	4,501	3,549	3,784	4,085	3,952	3,208	3,062	3,023	3,041	3,361
Atlantic City, N. J.....	1,695	1,786	1,216	1,091	899	17,976	10,153	17,173	11,861	27,395
Augusta, Ga.....	1,601	1,409	1,436	1,965	2,233	11,625	9,255	9,255	5,823	7,411
Baltimore, Md.....	25,684	21,927	22,135	20,625	17,099	1,210	1,436	1,167	1,459	1,551
Bayonne, N. J.....	606	554	429	338	504	46,664	45,458	42,456	28,438	33,945
Berkeley, Calif.....	3,556	4,280	3,200	2,669	2,487	3,586	3,686	2,876	1,950	1,995
Bethlehem, Pa.....	615	678	767	803	743	9,369	10,056	7,334	6,683	6,077
Binghamton, N. Y.....	2,057	1,962	1,832	2,441	2,273	2,372	6,150	2,151	2,477	3,843
Birmingham, Ala.....	6,363	6,198	5,595	5,392	5,687	4,398	4,497	3,278	4,291	3,456
Boston, Mass.....	11,387	10,965	9,815	9,839	9,255	18,166	16,662	17,174	21,787	14,225
Bridgeport, Conn.....	1,399	1,040	1,020	1,145	1,135	53,032	70,718	51,484	60,987	55,699
Brockton, Mass.....	1,340	1,075	900	952	887	2,981	3,719	3,458	5,187	3,527
Brookline, Mass.....	582	608	533	536	588	2,437	1,720	1,879	1,433	1,726
Buffalo, N. Y.....	10,508	9,450	7,280	6,605	5,545	3,913	9,806	4,951	5,902	6,291
Cambridge, Mass.....	1,202	1,256	1,084	1,057	1,052	28,402	26,774	27,413	33,073	24,402
Camden, N. J.....	1,967	2,114	2,246	1,751	1,293	8,285	11,711	8,270	9,557	8,084
Canton, Ohio.....	3,063	2,635	2,359	1,944	1,579	6,338	7,913	6,571	5,330	7,428
Charleston, S. C.....	234	573	402	433	454	8,608	8,966	5,321	4,156	3,662
Chattanooga, Tenn.....	2,149	2,740	3,079	3,006	2,939	2,817	732	466	586	561
Chester, Pa.....	578	709	693	664	489	2,585	4,977	4,808	4,874	4,793
Chicago, Ill.....	34,315	31,954	28,660	26,100	19,932	2,074	3,442	3,586	2,396	1,747
Chicopee, Mass.....	932	960	596	445	406	308,911	373,804	376,808	365,065	323,509
Cincinnati, Ohio.....	7,256	7,802	8,382	8,662	9,481	3,516	3,654	1,557	1,117	1,276
Cleveland, Ohio.....	16,952	16,128	13,912	12,108	10,593	23,572	31,970	1,557	30,570	35,459
Columbus, Ohio.....	9,585	7,160	7,046	6,030	5,350	62,980	67,916	29,257	45,481	56,159
Council Bluffs, Iowa.....	647	669	498	376	283	30,995	29,353	25,251	23,283	16,237
Covington, Ky.....	743	844	797	726	580	1,769	1,772	2,022	930	810
Dallas, Tex.....	5,241	5,283	4,262	3,533	3,428	2,062	2,915	2,152	1,722	1,592
Davenport, Iowa.....	1,731	853	662	708	1,235	27,795	28,354	16,123	9,774	8,089
Dayton, Ohio.....	3,420	3,383	2,922	3,118	2,617	1,820	1,831	1,183	2,053	1,350
Denver, Colo.....	7,809	7,064	6,152	7,339	6,154	9,750	12,484	11,011	10,332	10,358
Des Moines, Iowa.....	2,312	2,130	1,383	1,243	1,299	25,175	24,713	13,873	15,755	16,771
Detroit, Mich.....	40,682	41,892	40,204	28,104	23,541	9,220	6,184	5,869	2,876	4,510
Dubuque, Iowa.....	986	1,067	966	918	328	160,548	180,133	183,721	145,556	129,260
Duluth, Minn.....	2,632	2,781	2,229	2,453	2,175	1,613	1,291	1,729	1,288	877
East Orange, N. J.....	1,205	1,264	1,306	1,134	928	7,113	7,059	1,686	4,431	3,289
East St Louis, Ill.....	1,270	1,519	1,325	1,200	1,003	6,789	7,495	9,085	12,313	7,632
Elizabeth, N. J.....	1,467	1,766	1,119	1,454	910	3,285	5,081	5,469	5,563	2,707
El Paso, Tex.....	328	793	642	1,162	1,014	6,594	3,998	11,166	10,923	5,504
Erie, Pa.....	2,259	2,241	2,062	1,956	1,770	1,350	2,217	1,202	1,793	2,144
Evansville, Ind.....	2,940	1,885	2,273	1,861	1,805	6,949	8,538	6,091	5,393	4,764
Everett, Mass.....	741	725	660	667	535	3,334	3,270	4,468	3,416	5,111
Fall River, Mass.....	1,180	1,302	809	842	592	3,764	2,194	3,485	2,098	1,761
Fitchburg, Mass.....	669	685	452	318	202	4,451	3,796	2,156	1,841	2,836
Flint, Mich.....	4,750	4,388	6,487	8,785	6,700	2,128	2,128	1,564	638	822
Fort Wayne, Ind.....	3,098	2,759	2,565	1,844	1,646	8,943	6,274	13,029	22,087	14,423
Fort Worth, Tex.....	2,463	2,291	4,271	4,812	4,560	11,488	10,923	7,751	6,002	5,011
Galveston, Tex.....	2,256	2,859	2,906	2,551	2,243	8,434	8,434	19,402	28,484	11,544
Gary, Ind.....	2,089	2,717	3,305	2,857	1,966	2,575	1,703	3,201	2,974	2,677
Grand Rapids, Mich.....	5,953	6,471	9,610	8,388	5,401	9,059	13,058	22,074	15,017	6,041
Hamilton, Ohio.....	1,014	1,118	993	632	841	9,460	12,187	16,869	12,319	8,187
						2,199	2,208	2,529	1,783	2,063

## No. 827.—BUILDING PERMITS ISSUED IN PRINCIPAL CITIES—Continued

City and State	Total number of buildings					Proposed cost of buildings				
	1924	1925	1926	1927	1928	1924	1925	1926	1927	1928
Harrisburg, Pa.-----	1,055	1,039	1,091	1,037	844	1,000 dollars	1,000 dollars	1,000 dollars	1,000 dollars	1,000 dollars
Hartford, Conn.-----	2,691	2,717	3,100	2,321	1,931	6,866	3,385	4,333	3,569	5,595
Haverhill, Mass.-----	348	323	358	371	324	18,126	21,804	16,217	17,530	11,278
Hoboken, N. J.-----	186	268	248	271	239	714	667	845	910	554
Holyoke, Mass.-----	803	726	489	432	350	705	1,749	1,230	1,520	565
Houston, Tex.-----	6,991	6,598	5,887	5,880	6,072	3,291	3,413	2,607	2,044	1,261
Huntington, W. Va.-----	2,375	1,817	763	509	270	17,217	35,041	28,498	27,326	35,310
Indianapolis, Ind.-----	15,093	14,053	11,706	13,572	10,217	9,028	5,414	1,840	1,547	982
Jackson, Mich.-----	1,366	1,334	1,305	1,201	1,230	23,910	24,840	19,030	23,682	21,967
Jacksonville, Fla.-----	3,169	3,778	5,828	5,002	3,431	1,602	2,599	4,180	2,576	2,097
Jersey City, N. J.-----	2,126	2,061	1,833	1,554	1,375	7,186	14,601	20,789	12,768	7,660
Johnstown, Pa.-----	948	(1)	1,035	672	556	19,676	24,989	20,903	13,852	13,876
Kalamazoo, Mich.-----	1,273	1,421	1,394	1,494	1,513	6,530	(1)	3,913	1,356	1,095
Kansas City, Kans.-----	1,768	2,121	1,714	1,163	1,043	2,053	1,984	2,223	2,035	1,996
Kansas City, Mo.-----	5,221	6,386	3,899	2,919	2,345	3,985	3,737	2,520	1,587	1,651
Kenosha, Wis.-----	1,190	1,641	1,770	963	894	21,865	38,256	21,576	14,822	16,441
Knoxville, Tenn.-----	3,459	2,691	2,414	2,470	2,138	4,458	4,640	5,122	4,468	3,726
Lakewood, Ohio.-----	1,866	1,378	901	870	625	6,512	6,329	10,710	5,699	7,115
Lancaster, Pa.-----	1,257	899	717	856	647	6,513	7,317	4,293	3,516	4,722
Lansing, Mich.-----	2,122	1,629	1,689	1,301	1,340	4,748	4,132	2,328	3,005	2,389
Lawrence, Mass.-----	660	534	370	261	222	5,663	5,369	4,493	7,330	5,204
Lincoln, Nebr.-----	1,239	1,621	1,151	1,068	1,070	3,939	3,005	1,729	913	603
Little Rock, Ark.-----	2,252	2,218	2,186	2,008	1,528	3,115	7,007	5,936	4,399	3,643
Long Beach, Calif.-----	4,861	4,638	3,667	4,197	4,988	4,331	5,108	6,888	2,994	4,260
Los Angeles, Calif.-----	51,134	43,979	37,478	37,655	33,195	12,61	8,565	13,639	16,308	16,308
Louisville, Ky.-----	4,673	5,109	4,059	3,278	3,215	150,148	152,646	123,006	123,027	101,679
Lowell, Mass.-----	817	1,105	853	787	683	18,663	29,504	20,252	23,341	18,120
Lynn, Mass.-----	1,233	1,404	1,390	1,265	1,279	2,624	4,683	4,612	3,878	3,787
McKeesport, Pa.-----	813	950	2,309	1,905	1,325	3,353	2,384	2,525	2,356	2,185
Macon, Ga.-----	1,495	1,628	2,085	1,943	1,817	2,806	2,384	2,525	2,356	2,185
Malden, Mass.-----	876	880	860	866	630	1,754	1,730	1,739	2,886	2,350
Manchester, N. H.-----	1,463	1,315	1,047	1,189	970	3,569	3,006	3,611	3,800	2,893
Medford, Mass.-----	1,083	1,195	1,291	1,109	1,131	2,649	2,361	1,373	1,940	1,059
Memphis, Tenn.-----	5,068	4,728	4,795	4,017	4,005	4,326	5,596	5,759	4,371	4,515
Milwaukee, Wis.-----	8,386	7,960	8,327	8,609	7,258	19,271	15,316	15,332	12,403	14,283
Minneapolis, Minn.-----	9,570	9,948	8,090	6,791	6,580	37,442	31,477	3,814	37,748	35,406
Mobile, Ala.-----	960	831	690	872	1,647	22,726	29,446	20,609	22,430	23,258
Montgomery, Ala.-----	869	1,072	1,015	1,444	2,916	6,580	2,638	1,816	2,146	3,346
Mt Vernon, N. Y.-----	945	939	913	962	946	794	1,012	1,626	2,531	3,289
Nashville, Tenn.-----	2,701	1,907	2,210	2,097	2,227	10,877	10,877	24,827	16,775	14,262
Newark, N. J.-----	4,850	4,548	4,518	3,998	2,972	5,528	6,386	5,243	7,078	5,565
New Bedford, Mass.-----	1,158	1,083	830	1,422	981	41,756	39,607	41,198	51,452	34,285
New Britain, Conn.-----	1,263	1,473	1,559	1,437	1,227	6,925	8,297	2,269	2,107	1,095
New Haven, Conn.-----	2,166	1,921	2,386	1,514	1,330	6,132	7,717	7,789	4,104	3,532
New Orleans, La.-----	2,773	2,580	2,152	2,433	2,882	8,376	8,075	19,467	11,741	8,738
New Rochelle, N. Y.-----	1,066	1,031	983	905	845	16,979	16,345	18,586	15,897	12,628
New York, N. Y.-----						8,276	9,410	8,154	9,736	11,233
Borough of Brook- lyn.-----	30,700	27,696	26,064	22,431	18,358	238,614	255,226	283,659	220,969	198,285
Borough of Bronx.-----	8,094	7,962	10,348	11,864	10,959	131,607	157,134	214,580	172,588	189,825
Borough of Man- hattan.-----	4,143	4,066	3,880	3,832	3,787	286,643	398,931	341,256	290,321	361,723
Borough of Queens.-----	26,568	30,911	28,748	26,579	22,101	163,536	196,217	186,174	184,438	151,506
Borough of Rich- mond.-----	4,079	3,484	3,350	3,671	3,766	15,744	13,096	14,002	12,017	15,273
Niagara Falls, N. Y.-----	1,256	1,471	1,368	1,343	1,577	5,149	6,715	4,244	4,791	4,869
Norfolk, Va.-----	1,755	1,594	1,388	1,464	1,353	6,484	2,898	2,772	3,347	3,840
Oakland, Calif.-----	11,896	13,082	9,978	7,027	5,092	30,937	38,964	27,728	20,518	19,537
Oak Park, Ill.-----	1,275	1,095	960	1,020	836	9,750	8,085	6,470	9,081	9,290
Oklahoma City,-----										
Okla.-----	2,369	2,576	2,459	3,168	3,965	8,053	5,777	7,723	12,682	13,522
Omaha, Nebr.-----	2,852	2,905	1,490	1,035	1,169	12,269	14,652	9,926	4,567	9,050
Passaic, N. J.-----	1,000	769	766	987	975	4,424	14,652	3,337	5,603	3,062
Paterson, N. J.-----	2,694	2,449	2,377	2,458	2,258	7,726	6,659	7,463	6,370	7,357
Pawtucket, R. I.-----	1,141	1,345	1,111	1,140	993	3,696	7,709	3,724	3,587	2,823
Peoria, Ill.-----	1,692	1,785	1,459	1,492	1,418	4,750	5,566	5,685	3,410	3,951

1 Data not received.

## No. 827.—BUILDING PERMITS ISSUED IN PRINCIPAL CITIES—Continued

City and State	Total number of buildings					Proposed cost of buildings				
	1924	1925	1926	1927	1928	1924	1925	1926	1927	1928
Philadelphia, Pa.	23,595	24,949	17,805	19,082	16,423	1,000 dollars	1,000 dollars	1,000 dollars	1,000 dollars	1,000 dollars
Pittsburgh, Pa.	8,619	8,444	7,747	7,869	7,070	141,403	171,034	140,093	117,591	112,226
Portland, Me.	1,422	1,271	1,156	1,368	1,351	32,155	52,272	43,790	37,111	39,374
Portland, Oreg.	15,276	15,196	13,256	11,284	9,567	3,112	2,002	4,222	2,327	2,789
Portsmouth, Va.	466	442	370	403	472	29,219	38,476	32,589	28,973	21,276
Providence, R. I.	6,512	7,025	5,297	5,442	4,979	1,106	778	557	463	689
Pueblo, Colo.	1,282	1,266	1,051	1,445	1,458	29,302	23,196	23,188	23,133	16,004
Quincy, Ill.	279	454	421	435	369	1,686	2,346	1,246	1,625	1,467
Racine, Wis.	1,043	1,295	1,306	1,373	1,078	1,544	1,257	1,328	1,073	1,277
Reading, Pa.	3,123	2,805	2,542	2,367	2,179	3,432	5,265	4,067	6,391	4,417
Richmond, Va.	3,837	3,522	3,217	3,891	2,317	6,069	6,814	5,267	4,614	3,808
Roanoke, Va.	1,636	1,534	1,456	1,156	880	13,613	19,398	10,025	15,216	8,845
Rochester, N. Y.	7,199	6,804	5,838	5,665	4,542	4,144	3,425	4,568	2,584	3,279
Rockford, Ill.	1,862	1,959	1,946	2,116	1,875	28,097	28,097	21,637	22,589	17,621
Sacramento, Calif.	3,184	2,991	2,486	2,267	1,859	4,103	6,476	5,539	6,553	5,737
Saginaw, Mich.	2,171	1,844	1,663	1,426	1,658	7,959	11,324	7,699	8,814	5,524
St. Joseph, Mo.	830	765	688	659	284	2,844	2,935	3,085	3,611	4,350
St. Louis, Mo.	15,900	15,391	13,654	13,035	12,627	1,851	2,264	1,342	769	2,005
St. Paul, Minn.	6,078	6,234	5,414	4,772	4,999	39,766	55,057	42,739	41,417	42,828
Salem, Mass.	1,000	811	757	774	830	20,771	2,167	15,591	10,071	8,700
Salt Lake City, Utah	1,534	1,603	1,162	1,000	1,024	3,098	2,167	2,110	2,727	1,720
San Antonio, Tex.	3,904	3,803	3,239	3,461	4,284	5,358	5,845	5,627	4,856	5,277
San Diego, Calif.	7,004	7,746	7,930	6,652	5,150	9,207	9,432	12,072	12,190	18,900
San Francisco, Calif.	7,572	8,087	7,385	6,932	6,648	15,009	18,061	19,831	13,877	12,150
Savannah, Ga.	768	622	682	611	525	57,093	50,093	57,154	46,449	37,504
Schenectady, N. Y.	2,034	1,583	1,082	1,192	1,175	2,257	1,654	2,931	2,180	2,137
Scranton, Pa.	1,396	1,363	776	1,141	1,139	8,131	7,160	4,010	4,318	3,428
Seattle, Wash.	10,471	11,803	10,924	9,806	9,512	5,320	5,985	3,141	5,707	4,637
Shreveport, La.	3,353	2,951	2,969	2,426	2,921	27,212	30,627	34,218	29,070	34,807
Sioux City, Iowa.	1,471	1,436	964	741	799	5,064	5,435	5,357	3,046	4,846
Somerville, Mass.	1,040	1,067	1,044	822	407	4,669	3,611	4,260	1,868	2,170
South Bend, Ind.	3,611	2,983	4,274	2,406	2,524	3,306	5,653	5,066	3,386	1,424
Spokane, Wash.	2,437	2,749	2,418	2,142	2,187	5,360	8,445	9,753	4,589	6,363
Springfield, Ill.	2,107	1,726	1,357	1,134	1,195	3,288	4,367	4,191	3,657	5,737
Springfield, Mass.	3,116	2,765	2,275	1,954	1,539	6,198	5,527	5,251	3,770	3,739
SpRINGfield, Ohio	1,196	1,215	1,174	945	1,017	13,100	15,002	8,734	8,906	5,977
Stockton, Calif.	1,454	1,519	1,191	1,166	926	1,924	1,543	1,447	1,694	1,557
Superior, Wis.	797	891	651	490	614	4,112	3,814	2,731	2,803	1,775
Syracuse, N. Y.	3,615	3,546	3,394	3,961	3,103	1,371	3,223	2,136	1,277	1,852
Tacoma, Wash.	4,064	3,759	4,555	2,453	2,341	9,467	11,920	14,274	21,990	13,220
Tampa, Fla.	4,039	7,020	8,350	4,755	3,637	8,368	7,074	11,088	4,765	4,660
Terre Haute, Ind.	2,380	1,897	1,755	1,586	1,696	6,573	22,759	15,480	6,145	3,617
Toledo, Ohio	7,047	6,349	6,034	6,192	5,334	2,712	1,536	2,064	1,213	973
Topeka, Kans.	1,554	1,484	1,393	1,231	1,117	15,812	15,503	13,046	15,514	17,346
Trenton, N. J.	2,296	2,377	1,476	1,353	1,062	2,598	3,176	3,579	2,222	1,992
Troy, N. Y.	1,000	896	808	935	774	5,751	7,923	4,931	4,530	4,106
Tulsa, Okla.	2,117	2,746	2,358	3,466	3,829	4,236	3,002	2,602	3,206	1,324
Union City, N. J.	402	652	862	1,075	674	7,984	10,016	7,230	14,792	18,411
Utica, N. Y.	1,102	1,024	876	672	680	1,373	1,768	1,933	3,410	1,121
Washington, D. C.	8,927	10,805	9,324	6,954	6,916	7,775	5,157	6,532	3,381	3,917
Waterbury, Conn.	1,295	1,109	1,231	1,287	907	48,090	65,490	64,970	39,263	53,975
Wheeling, W. Va.	1,468	1,166	977	1,081	843	3,984	5,088	5,252	5,016	3,488
Wichita, Kans.	2,907	2,341	2,278	2,322	2,390	5,147	4,263	1,821	3,014	1,967
Wilkes-Barre, Pa.	1,706	1,560	1,405	1,376	1,337	4,203	5,042	5,184	5,849	7,974
Wilmington, Del.	1,782	1,630	2,118	1,924	1,969	4,522	3,901	3,941	4,934	3,896
Worcester, Mass.	3,403	3,133	2,820	2,381	1,999	3,776	3,987	4,871	6,806	5,577
Yonkers, N. Y.	1,385	1,762	1,855	2,005	1,934	14,768	18,089	12,985	8,815	7,260
York, Pa.	1,659	1,078	870	718	954	13,289	19,899	25,644	32,586	35,619
Youngstown, Ohio	3,054	2,813	2,465	22,91	2,191	2,941	3,263	1,242	1,589	2,065
						11,942	11,953	9,614	9,007	8,638

\* Formerly West Hoboken

Source: Bureau of Labor Statistics, Department of Labor

## No. 828.—BUILDING PERMITS ISSUED, BY CLASSES

NOTE.—See headnote, Table 827 Figures for 1927 and 1928 represent 302 identical cities, while those for 1926 are for 292 cities only

Class of building	Number of buildings			Proposed cost (thousands of dollars)		
	1926	1927	1928	1926	1927	1928
All buildings.....	506,861	440,876	382,514	3,623,987	3,240,441	3,089,075
Residential buildings.....	251,498	208,763	180,534	2,292,577	1,961,900	1,908,382
1-family dwellings.....	200,373	164,268	143,889	938,578	789,383	710,901
2-family dwellings.....	29,860	26,227	19,956	250,795	208,578	153,128
1-family and 2-family dwellings with stores.....	4,169	3,329	2,620	44,105	34,979	26,679
Multi-family dwellings.....	14,993	13,663	12,063	793,497	736,830	776,419
Multi-family dwellings with stores.....	1,502	1,788	1,528	81,162	90,667	90,755
Hotels.....	306	201	234	145,278	69,393	114,290
Lodging houses.....	60	79	37	808	1,305	781
Other.....	233	213	207	38,354	30,764	35,370
Nonresidential buildings.....	255,365	232,113	201,980	1,331,410	1,278,542	1,180,753
Amusement buildings.....	963	943	947	135,480	123,209	84,677
Churches.....	1,188	1,118	1,002	66,698	58,890	48,852
Factories and workshops.....	4,855	4,181	3,932	179,854	141,307	152,411
Public garages.....	4,456	4,192	3,886	75,510	74,396	70,656
Private garages.....	197,106	181,859	155,478	78,100	65,449	54,921
Service stations.....	4,250	4,919	4,462	15,305	15,022	14,769
Institutions.....	290	332	303	49,630	75,132	65,002
Office buildings.....	1,711	1,271	1,352	262,563	242,853	255,801
Public buildings.....	277	339	243	31,681	47,451	29,378
Public works and utilities.....	779	593	516	43,829	45,389	38,671
Schools and libraries.....	886	837	843	152,729	155,542	142,154
Sheds.....	16,523	13,608	11,668	7,356	5,091	4,870
Stables and barns.....	507	358	366	845	823	581
Stores and warehouses.....	15,702	13,280	12,925	216,381	215,747	210,306
All other.....	5,872	4,283	4,127	15,447	7,239	7,704

Source: Bureau of Labor Statistics, Department of Labor.

## No. 829.—INDEX NUMBERS OF BUILDING MATERIAL PRICES AND CONSTRUCTION COSTS

[Monthly average 1923-1925=100]

Year and quarterly average	(1) Wholesale price indexes of—							(2) Construction costs	(3) Factory building costs	(4) Frame house materials, retail prices	(4) Brick house materials, retail prices
	All building materials	Lumber	Brick, common (average 82 yards)	Cement f. o. b. plant near Chicago	Structural steel	Paint materials	Other building materials				
1913.....	54.4	52.0	38.0	56.5	68.0	49.1	61.1	47.1	—	49.7	49.2
1914.....	50.6	48.0	37.9	52.2	52.9	49.0	57.8	41.8	50.5	—	—
1915.....	51.3	46.9	38.2	48.4	57.6	53.0	63.0	43.7	—	—	—
1916.....	64.9	53.0	41.4	62.0	113.7	74.6	85.0	69.5	—	—	—
1917.....	84.6	69.5	49.0	76.2	168.3	92.2	110.4	85.4	—	—	—
1918.....	94.6	80.4	65.1	89.8	135.1	117.9	117.1	89.2	—	—	—
1919.....	110.9	108.8	89.7	97.1	113.5	135.7	113.1	98.5	—	—	—
1920.....	144.0	159.0	118.6	117.2	127.3	143.2	130.7	118.5	—	—	—
1921.....	93.5	85.6	103.2	105.1	92.1	81.1	107.6	95.1	90.1	—	—
1922.....	93.4	95.4	97.1	98.2	78.0	90.7	92.3	82.3	85.9	90.5	91.6
1923.....	104.3	107.6	101.2	102.4	109.1	98.0	102.1	100.9	101.9	102.7	103.0
1924.....	98.2	95.6	101.0	100.3	100.7	96.4	100.7	101.6	100.1	100.0	100.1
1925.....	97.6	96.8	97.8	97.3	90.1	105.7	97.2	97.5	98.1	97.2	96.8
1926.....	96.0	96.2	97.7	94.9	88.2	96.7	96.8	98.1	99.5	96.7	95.9
1927.....	89.5	89.0	91.0	91.7	83.5	88.0	91.1	97.3	97.2	92.9	92.6
1928.....	89.9	86.7	90.5	91.0	84.0	83.8	98.1	97.5	96.4	88.4	90.1
1927											
January-March.....	92.5	92.3	93.7	92.2	87.8	91.2	93.8	99.1	98.1	94.7	93.5
April-June.....	91.1	91.4	91.3	91.6	84.8	89.5	92.2	97.6	97.4	94.1	93.1
July-September.....	89.2	88.9	91.0	91.6	81.1	88.3	90.0	96.3	96.9	92.9	92.5
October-December.....	87.1	86.1	90.1	91.6	80.3	83.6	88.9	95.9	96.4	89.9	91.4
1928											
January-March.....	87.2	85.5	90.2	91.6	83.3	83.6	89.9	96.4	96.7	90.0	91.2
April-June.....	89.5	84.9	90.7	91.6	84.4	83.1	99.3	97.4	96.6	88.1	90.0
July-September.....	90.8	87.0	90.5	91.0	83.3	83.7	100.9	97.6	96.4	87.5	89.2
October-December.....	92.1	89.2	90.6	89.8	84.8	84.8	102.3	98.6	96.2	87.9	89.9

Sources: (1) Department of Labor, (2) Lumber, steel, cement, and rates paid common labor, Engineering News-Record; (3) Standard factory building, Abertshaw Construction Co., (4) Retail prices of building material in 60 cities, Department of Commerce.

## No. 830.—CONSTRUCTION CONTRACTS AWARDED

NOTE.—Data compiled from reports covering contracts awarded in small towns and rural districts as well as large cities. Certain public works (roads, etc.) not in the nature of buildings have no floor space reported. The total value of contracts awarded for the 25 States for years prior to 1915 were as follows: 1910, \$805,700,000, 1911, \$777,456,000, 1912, \$868,103,000, 1913, \$857,700,000, 1914, \$720,240,000

[Floor space in thousands of square feet; values in thousands of dollars]

Year	Total	Residential	Commercial	Industrial	Public works and utilities	Educational	Hospitals and institutions	All other
<b>27 NORTHERN AND EASTERN STATES <sup>1</sup></b>								
Number of projects <sup>2</sup>								
1919	82,342	47,990	13,102	7,637	7,843	1,997	582	3,191
1920	57,851	28,966	10,752	6,137	6,406	2,027	587	2,976
1921	78,243	49,421	16,132	3,287	8,453	2,737	647	3,576
1922	107,652	72,996	12,636	3,876	10,427	3,301	718	3,698
1923	105,458	71,536	12,715	4,051	10,483	2,768	605	3,300
1924	109,052	77,713	12,172	3,463	8,673	2,793	660	3,578
1925	132,108	96,822	13,925	4,274	9,125	2,960	733	4,269
1926	132,338	93,722	14,728	4,620	10,885	2,935	799	4,649
1927	143,989	100,138	16,058	4,557	13,451	3,362	997	5,426
1928	161,142	112,710	18,053	4,949	15,867	3,499	963	5,101
Floor space of buildings								
1915	( <sup>3</sup> )	\$ 228,000	( <sup>3</sup> )	\$ 63,696	—	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
1916	( <sup>3</sup> )	\$ 218,004	( <sup>3</sup> )	\$ 96,600	—	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
1917	( <sup>3</sup> )	\$ 150,996	( <sup>3</sup> )	\$ 108,504	—	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
1918	( <sup>3</sup> )	\$ 104,004	( <sup>3</sup> )	\$ 180,900	—	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
1919	560,219	241,880	110,884	153,268	—	22,979	6,821	24,388
1920	401,894	137,524	82,434	127,830	—	26,278	6,277	21,551
1921	387,229	204,575	65,235	35,771	—	40,583	10,683	30,382
1922	573,856	311,407	95,233	65,550	—	54,592	11,779	35,235
1923	591,976	354,257	92,788	62,205	—	44,352	9,987	28,397
1924	600,916	371,288	95,861	40,967	—	46,875	12,707	33,238
1925	762,146	470,207	124,064	58,719	—	51,204	12,020	45,932
1926	741,270	459,240	121,039	67,764	—	44,478	13,131	44,610
1927	723,655	434,856	118,940	58,052	—	45,197	16,967	49,644
1928	834,689	507,980	134,206	76,812	—	52,986	18,183	44,523
Value of contracts								
1915	940,092	417,984	( <sup>4</sup> )	106,944	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	415,164
1916	1,356,984	483,300	( <sup>4</sup> )	182,544	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	691,140
1917	1,618,157	354,576	( <sup>4</sup> )	248,016	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	1,015,565
1918	1,689,240	304,572	( <sup>4</sup> )	482,424	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	902,244
1919	2,579,881	849,206	405,666	512,924	502,006	119,515	39,192	151,372
1920	2,533,222	566,123	419,633	588,965	566,345	172,299	47,543	172,296
1921	2,360,189	877,870	338,028	173,316	459,356	243,652	70,135	197,832
1922	3,352,657	1,347,157	496,300	325,000	582,166	303,347	86,628	232,059
1923	3,494,118	1,582,751	446,124	378,815	557,368	272,529	62,044	194,487
1924	3,879,538	1,842,463	522,234	285,137	577,327	317,147	98,341	236,889
1925	5,043,028	2,359,907	717,263	413,321	704,113	369,490	97,634	381,311
1926	5,421,677	2,338,838	784,145	592,326	861,262	321,125	120,835	403,146
1927	5,473,161	2,326,942	834,425	376,761	1,025,444	323,780	148,980	436,829
1928	5,843,852	2,551,170	785,347	506,084	1,133,278	347,197	153,725	367,081
<b>37 STATES <sup>5</sup></b>								
Number of projects								
1925	173,722	127,679	19,083	5,316	11,006	4,024	929	5,685
1926	170,723	120,473	20,249	5,777	13,261	3,993	985	5,985
1927	134,604	128,436	21,616	5,637	16,280	4,497	1,194	6,944
1928	200,257	139,133	23,583	6,067	19,012	4,761	1,141	6,560
Floor space of buildings								
1925	924,007	559,521	160,067	70,294	—	61,303	14,036	58,783
1926	877,120	521,061	151,930	80,843	—	54,565	14,790	53,932
1927	840,923	464,463	141,815	70,855	—	55,475	18,803	59,513
1928	958,989	567,831	159,192	95,382	—	63,203	20,004	63,377
Value of contracts								
1925	6,007,598	2,747,882	872,444	490,942	901,619	426,386	111,050	457,277
1926	6,384,406	2,674,210	920,891	698,505	1,113,098	381,078	133,102	463,522
1927	6,303,055	2,573,317	932,911	494,050	1,263,835	379,796	162,474	496,673
1928	6,636,186	2,794,317	884,610	635,390	1,337,931	400,897	164,728	418,313

<sup>1</sup> Prior to May, 1921, these figures covered the 25 States north and east of, and including, North Dakota, South Dakota, Iowa, Missouri, Tennessee, and Virginia, together with portions of eastern Kansas and Nebraska, and the District of Columbia. Beginning May, 1921, North Carolina and South Carolina were added to the list, but this addition is stated to have little effect upon the total.

<sup>2</sup> No data available prior to 1919.

<sup>3</sup> Estimates made by the F. W. Dodge Corporation.

<sup>4</sup> Data not reported separately prior to 1919, but included with "All other."

<sup>5</sup> Figures for the 37 States include all except the 11 States in the Mountain and Pacific divisions.

Source: The F. W. Dodge Corporation



# No. 831.—CONSTRUCTION CONTRACTS AWARDED IN 37 STATES: By MONTHS

NOTE—See headnote, Table 830

Month	Floor space of buildings <sup>1</sup> (thousands of square feet)				Value of construction (thousands of dollars)			
	1925	1926	1927	1928	1925	1926	1927	1928
<b>Total</b> -----	924, 007	877, 120	840, 923	958, 989	6, 007, 598	6, 384, 406	6, 303, 055	6, 636, 186
January-----	49, 985	65, 402	52, 790	63, 486	309, 551	457, 159	384, 455	427, 169
February-----	48, 609	55, 323	54, 263	68, 652	310, 893	407, 900	393, 583	465, 331
March-----	75, 832	85, 458	86, 889	87, 633	491, 011	623, 879	620, 738	592, 567
April-----	85, 309	85, 849	83, 150	94, 267	567, 567	570, 614	604, 391	643, 137
May-----	81, 246	84, 135	73, 016	93, 526	508, 712	549, 815	552, 349	668, 097
June-----	80, 574	77, 104	77, 293	94, 087	561, 052	547, 792	632, 478	650, 466
July-----	85, 680	68, 643	67, 130	81, 674	547, 106	518, 932	534, 390	583, 432
August-----	91, 587	75, 456	72, 398	78, 387	611, 356	606, 808	552, 488	516, 970
September-----	84, 870	74, 107	66, 913	75, 081	566, 470	562, 372	521, 610	587, 674
October-----	83, 643	71, 736	76, 051	85, 307	530, 254	515, 727	562, 816	597, 104
November-----	79, 007	70, 121	68, 544	72, 736	474, 793	487, 013	466, 394	471, 482
December-----	77, 646	68, 794	62, 486	64, 165	528, 845	537, 397	477, 364	432, 756

<sup>1</sup> Does not include floor space for public works and public utilities

# No. 832.—CONSTRUCTION CONTRACTS AWARDED IN 37 STATES: By CLASSES AND DISTRICTS

NOTE—See headnote, Table 830 Philadelphia district includes eastern Pennsylvania, southern New Jersey, Maryland, Delaware, District of Columbia, and Virginia; Pittsburgh district, western Pennsylvania, West Virginia, Ohio, and Kentucky; Southeastern district, North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Tennessee, Arkansas, and Louisiana, Chicago-St. Louis district, Illinois, Indiana, Iowa, Wisconsin, southern Michigan, Missouri, Kansas, Nebraska, and Oklahoma, Minneapolis district, Minnesota, North Dakota, South Dakota, and northern Michigan

Year and class	37 States	New England	New York and northern New Jersey	Philadelphia	Pittsburgh	South-eastern	Chicago-St. Louis	Minneapolis	Texas
Floor space (in thousands of square feet) <sup>1</sup>									
<b>Total, all classes:</b>									
1925-----	924, 007	82, 322	251, 363	96, 005	96, 752	125, 404	218, 654	17, 050	36, 457
1926-----	877, 120	70, 639	251, 316	96, 850	86, 227	97, 159	220, 290	15, 949	38, 691
1927-----	840, 923	62, 851	223, 007	96, 008	86, 105	79, 891	243, 183	12, 771	37, 377
1928-----	958, 989	71, 936	271, 289	111, 712	85, 476	86, 214	282, 904	11, 373	38, 086
1928									
Residential-----	567, 831	44, 828	187, 874	65, 610	42, 219	40, 346	161, 987	5, 462	19, 506
Commercial-----	159, 192	11, 070	42, 050	14, 267	14, 290	16, 186	49, 982	2, 547	8, 799
Industrial-----	95, 382	5, 741	10, 485	13, 943	13, 199	14, 726	32, 720	724	3, 844
Educational-----	63, 203	4, 554	14, 514	7, 743	7, 707	7, 639	17, 255	1, 214	2, 579
Hospitals and institutions-----	20, 004	1, 578	5, 621	2, 660	2, 885	1, 346	4, 902	537	476
All other-----	53, 377	4, 165	10, 745	7, 490	5, 175	5, 971	16, 057	890	2, 883
Value (in thousands of dollars)									
<b>Total, all classes:</b>									
1925-----	6, 007, 598	477, 181	1, 601, 329	552, 318	828, 912	779, 212	1, 488, 060	95, 229	185, 358
1926-----	6, 384, 406	441, 583	1, 775, 061	689, 414	741, 368	730, 317	1, 672, 133	102, 118	232, 412
1927-----	6, 303, 055	412, 767	1, 684, 446	721, 148	758, 135	610, 789	1, 812, 849	83, 816	219, 105
1928-----	6, 636, 186	496, 481	1, 814, 317	787, 673	824, 416	560, 925	1, 940, 775	80, 191	231, 409
1928									
Residential-----	2, 794, 317	203, 349	936, 084	333, 863	226, 592	163, 941	826, 340	24, 943	79, 207
Commercial-----	884, 610	62, 482	263, 517	88, 691	74, 551	62, 209	283, 517	12, 689	37, 054
Industrial-----	635, 390	26, 448	54, 136	106, 386	93, 767	96, 519	161, 398	3, 748	32, 787
Educational-----	400, 897	33, 966	101, 967	52, 033	46, 098	39, 323	106, 944	6, 160	14, 407
Public works and utilities-----	1, 337, 931	62, 874	312, 766	122, 659	218, 007	155, 279	393, 167	23, 806	49, 374
Hospitals and institutions-----	164, 728	13, 847	54, 191	22, 656	24, 640	8, 309	35, 042	3, 348	2, 695
All other-----	418, 313	33, 314	91, 656	61, 385	40, 761	35, 346	134, 368	5, 598	15, 886

<sup>1</sup> Excludes floor space for public works and public utilities.

Source of Tables 831 and 832 the F. W. Dodge Corporation

# No. 833.—PATENTS AND CERTIFICATES OF REGISTRATION ISSUED SINCE INITIATION OF THE PATENT SYSTEM

NOTE.—The number of patents granted prior to July 28, 1836, was 9,957

Calendar year or period	Patent applica- tions <sup>1</sup>	Caveats filed <sup>2</sup>	Patents issued				Certificates of registration issued		
			Total	Patents	Designs	Reissues	Total	Trade- marks	Labels and prints
1836-1850 <sup>3</sup> -----	14,062	4,763	8,387	7,864	340	183	-----	-----	-----
1851-1860-----	44,302	9,571	25,087	23,140	1,025	922	-----	-----	-----
1861-1870-----	126,763	22,228	85,910	79,612	3,181	3,117	121	121	-----
1871-1880-----	206,436	29,350	138,355	125,520	7,535	5,300	10,394	8,016	2,378
1881-1890-----	352,475	25,012	217,821	207,850	8,357	1,614	14,660	10,636	4,024
1891-1900-----	410,049	21,199	234,956	220,840	13,374	742	18,794	16,903	<sup>4</sup> 1,891
1901-1905-----	253,417	9,168	148,291	143,791	3,953	547	18,590	12,768	5,822
1906-1910-----	307,187	8,880	175,618	171,560	3,297	761	36,375	32,060	4,315
1911-1915-----	350,937	-----	194,387	186,241	7,295	851	32,381	27,369	5,012
1916-1920-----	368,236	-----	207,108	197,644	8,486	978	35,364	30,681	4,683
1921-1925-----	426,597	-----	217,525	203,977	12,326	1,222	79,288	68,881	10,407
1901-----	46,440	1,842	27,373	25,558	1,734	81	2,965	1,928	1,037
1902-----	49,641	1,851	27,886	27,136	640	110	2,931	2,006	925
1903-----	50,213	1,771	31,699	31,046	536	117	3,446	2,186	1,260
1904-----	52,143	1,808	30,934	30,267	557	110	3,569	2,158	1,411
1905-----	54,971	1,896	30,399	29,784	486	129	5,679	4,490	1,189
1906-----	56,482	1,885	31,965	31,181	625	159	11,933	10,568	1,365
1907-----	58,762	1,967	36,620	35,880	589	151	8,860	7,878	982
1908-----	61,475	2,110	33,682	32,757	757	168	6,029	5,191	838
1909-----	65,839	1,948	37,421	36,574	687	160	4,824	4,184	640
1910-----	64,629	970	35,930	35,168	639	123	4,729	4,239	490
1911-----	69,121	-----	34,084	32,917	1,010	157	5,112	4,205	907
1912-----	70,976	-----	37,731	36,231	1,342	158	5,896	5,020	876
1913-----	70,367	-----	35,788	33,941	1,683	164	6,063	5,065	998
1914-----	70,404	-----	41,850	39,945	1,715	190	7,874	6,817	1,057
1915-----	70,069	-----	44,934	43,207	1,545	182	7,436	6,262	1,174
1916-----	71,033	-----	45,927	43,970	1,759	198	8,087	6,791	1,296
1917-----	70,373	-----	42,760	41,069	1,512	179	6,197	5,339	858
1918-----	59,615	-----	39,941	38,569	1,207	165	4,912	4,061	851
1919-----	80,100	-----	38,598	36,872	1,523	203	4,874	4,208	666
1920-----	86,815	-----	39,882	37,164	2,455	233	11,294	10,282	1,012
1921-----	93,328	-----	41,401	37,885	3,277	239	13,605	11,654	1,951
1922-----	88,930	-----	40,297	38,414	1,627	256	14,992	12,793	2,199
1923-----	79,058	-----	40,787	38,634	1,927	226	16,725	14,845	1,880
1924-----	80,756	-----	45,500	42,594	2,671	235	17,562	15,749	1,813
1925-----	84,525	-----	49,540	46,450	2,824	266	16,404	13,840	2,564
1926-----	86,028	-----	47,627	44,750	2,602	275	<sup>5</sup> 21,819	<sup>5</sup> 19,246	2,573
1927-----	92,018	-----	44,444	41,731	2,387	326	<sup>5</sup> 20,548	<sup>5</sup> 17,649	2,899
1928-----	87,476	-----	45,899	42,376	3,188	335	<sup>5</sup> 19,184	<sup>5</sup> 16,191	2,993

<sup>1</sup> Including patents, designs, and reissues

<sup>2</sup> Caveat law repealed June 25, 1910

<sup>3</sup> July 28, 1836, to Dec. 31, 1850.

<sup>4</sup> Registration of labels suspended from May 27, 1891, to June 9, 1896.

<sup>5</sup> Figures include 4,282 renewals in 1926, 3,063 in 1927, and 2,049 in 1928.

Source. Reports of the Commissioner of Patents.

## APPENDIX

### UNITED STATES UNITS WITH METRIC EQUIVALENTS

1 inch=2.540 centimeters.  
 1 foot=0.3048 meter.  
 1 yard=0.9144 meter.  
 1 mile=1.609 kilometers.  
 1 square yard=0.8361 square meter.  
 1 acre=0.4047 hectare.  
 1 square mile=2.590 square kilometers.  
 1 cubic inch=16.39 cubic centimeters.  
 1 cubic foot=0.02832 cubic meter.  
 1 cubic yard=0.7646 cubic meter.  
 1 liquid quart=0.9463 liter.  
 1 gallon=231 cubic inches=3.785 liters.  
 1 bushel (measured)=2,150.4 cubic inches=35.24 liters.  
 1 avoirdupois ounce=28.35 grams.  
 1 troy ounce=31.10 grams.  
 1 pound=0.4536 kilogram.  
 1 long ton=2,240 pounds=1.0160 metric tons of 1,000 kilograms.  
 1 short ton=2,000 pounds=0.9072 metric ton.

### UNITED STATES GALLON AND BUSHEL WITH BRITISH EQUIVALENTS

1 United States gallon=231 cubic inches=0.8331 imperial gallon  
 1 United States bushel=2,150.4 cubic inches=0.9694 imperial bushel

### OFFICIAL WEIGHTS OF THE BARREL OF NONLIQUID PRODUCTS

	Pounds	Kilo-grams
Wheat flour, barley flour, rye flour, and corn meal (net) <sup>1</sup> .....	196	88.90
Rosin, tar, and pitch (gross).....	500	226.80
Fish, pickled (net).....	200	90.72
Lime (net).....	200	90.72
Cement (4 bags counted as 1 barrel) (net) <sup>1</sup> .....	376	170.55

<sup>1</sup> Except as noted

### OFFICIAL WEIGHTS OF THE UNITED STATES BUSHEL

	Pounds	Kilo-grams
Wheat, beans, peas, potatoes.....	60	27.22
Rye, corn (maize), linseed (flaxseed), mashin (mixed grain).....	56	25.40
Barley, buckwheat.....	48	21.77
Onions.....	57	25.86
Rough rice.....	45	20.41
Malt.....	34	15.42
Oats.....	32	14.51
Peanuts, green, in shell.....	22	9.98
Castor beans.....	50	22.68

### APPROXIMATE WEIGHT OF PETROLEUM AND PRODUCTS

In the United States petroleum and its products are measured by bulk, not weight. Whether handled in containers or without them the quantities are customarily reduced to the equivalent of barrels of 42 United States gallons (barrel thus equals 158.984 liters). In many foreign countries these commodities are measured by weight. The specific gravity of the different grades of crude petroleum and of the finished products varies materially. On the basis of approximate averages the Department of Commerce in converting foreign weight statistics to gallons or barrels of 42 gallons uses the factors shown in the following table:

	Weight of United States gallon		Weight of barrel of 42 gallons	
	Pounds	Kilo-grams	Pounds	Kilo-grams
Crude petroleum.....	7.3	3.311	306.6	139.07
Lubricating oils.....	7.0	3.175	294.0	133.36
Illuminating oils (kerosene).....	6.0	2.994	277.2	125.74
Gasoline and related products (motor spirit, benzine, etc.).....	6.1	2.767	256.2	116.21
Fuel and gas oils.....	7.7	3.493	323.4	146.69

# INDEX

NOTE —Many individual commodities and industries not listed in the index are shown in the general tables, where they may readily be found, being either arranged alphabetically or placed in appropriate groups. Such tables are—

	Page
No 344 Wholesale prices of leading commodities.....	326-328
No 537 Exports or domestic merchandise by commodity groups and articles.....	504-549
No 538 Imports or merchandise by commodity groups and articles.....	550-585
No 539. Reexports of foreign merchandise.....	586, 587
No 638 Animal food products manufacturing industries.....	666
No. 692 Food products manufacturing industries.....	718, 719
No 728 Mineral products of the United States.....	744-746
No. 797. Manufactures Summary for individual industries.....	790-813
No 802 to No. 816, Summary of census statistics of production for major industries.....	823-837

	Page		Page
Abrasives.....	526, 575, 742, 745, 802, 826	Almshouses, paupers in.....	65, 70
Acceptances.....	248, 250, 252, 253, 269, 273	Aluminum.....	530, 577, 744, 756, 806
Interest rates.....	300, 301	Aluminum compounds.....	543, 826
Accessions, territorial, of the United States.....	1	Alums.....	826
Accident and sick benefit insurance.....	313, 314	American Railway Express Co.....	420
Accidents and fatalities		American Telephone & Telegraph Co.....	359, 361
At sea.....	441, 442	Ammonia.....	328, 543, 581, 826
Automobile.....	82, 389-391	Ammunition.....	503, 545, 583, 798
In metal mines, quarries, etc.....	782, 783	Amusement corporations, tax returns.....	197
Railway.....	418, 419	Animal products ( <i>see also</i> Wool and other individual commodities)	
Acids.....	328, 434, 543, 581, 800, 826	Summary of production.....	655, 656
Ageing, crop ( <i>see also</i> under Crops).....	615, 624, 626	Cold-storage holdings.....	663
Adding and calculating machines.....	539, 831	Estimated value, farm production.....	641
Aden.....	488	Foreign trade.....	502, 504, 506, 550, 552, 586, 644, 645
Admission of States and Territories, dates.....	1	Prices.....	326, 645, 646
Africa, trade ( <i>see also</i> Union of South Africa and Colonies and mandates of European nations).....	479-481, 483-485, 490, 497	Animals, domestic ( <i>see also</i> individual classes)	
Age distribution ( <i>see also</i> under Population), immigrant and emigrant aliens.....	94	Foreign trade.....	502, 504, 508, 550, 555, 586
Agents <i>See</i> Brokers, etc		Grazed on national forest ranges.....	724
Agricultural corporations tax returns.....	187-	Inspected and slaughtered.....	655, 666
190, 191, 196, 197		Number and value of farm.....	647-650
Agricultural credits.....	264, 273, 280-285	By States.....	648
Agricultural implements and machinery		Prices.....	325, 326, 642, 653, 654
Foreign trade.....	503, 540, 580	Receipts and shipments.....	651, 652
Manufacture.....	318, 808, 831, 835	Traffic movement.....	414, 417, 434
Prices.....	323, 328	Value as national wealth.....	293, 294
Traffic movement.....	415	Animals and products:	
Value of, on farms and as national wealth.....	293, 294, 613, 619	Foreign trade.....	502, 504, 506, 550, 552, 586, 644, 645
Agricultural products		Traffic movement.....	414, 416, 434
Foreign trade.....	644, 645	Antimonial lead, production.....	744, 759
Export indexes.....	645	Antimony.....	579, 739, 744
Prices.....	323-326, 642, 645	Apianists, dairymen, and poultry men's supplies.....	811
Traffic movement.....	414, 416	Apples	
Value as national wealth.....	293	Canned.....	718
Agriculture ( <i>see also</i> Farms, Crops, etc.)		Foreign trade.....	510, 557
Persons engaged in.....	51, 53-55, 62	Prices.....	326, 701, 714
Vocational training in.....	124-127	Production.....	604, 608, 669, 671, 700, 701
Air-mail service.....	353	Appropriations by Congress.....	182
Aircraft.....	809, 831, 837	Apicots.....	510, 671, 718
Alaska		Arabia.....	448, 488
Area, date of accession, and population.....	1, 3, 6	Area	
Banks.....	265, 270-272	Continental United States.....	1-3
Fisheries.....	735-738	Noncontiguous territories.....	1, 3
Foreign trade.....	496, 591, 595, 596	States.....	2
Internal revenue.....	185, 186, 191, 192	Argentina.....	297, 298, 497
Mines and quarries.....	740, 757, 762	Trade with United States.....	448, 485, 486, 755
National monuments and forests.....	138, 139, 722, 723	Armenia.....	215
Postal Service.....	354, 356, 357	Army, strength of.....	153-155
Railroads.....	394, 421	Arrowroot <i>See</i> Tapioca, etc.	
Schools.....	110-112, 115, 116, 118, 121	Arsenious oxide, production.....	745
Albania and Yugoslavia.....	488	Artists' materials.....	810
Alcohol.....	328, 543, 581, 800, 811	Art works.....	503, 549, 585, 587, 808
Alfalfa, hay and seed.....	514, 562, 604, 608, 714	Arts, gold used in.....	763
Algeria and Tunisia.....	447, 490	Asbestos.....	526, 575, 587, 742, 745
Alien Property Custodian.....	178, 180	Asbestos products.....	526, 575, 802
Aliens <i>See</i> Immigration		Asia, foreign trade.....	479-481, 483-485, 488, 497
Almonds.....	558, 671	Asparagus.....	509, 672, 718
		Asphalt.....	415, 526, 575, 742, 745, 772, 775, 776
		Asses and burros.....	508, 647

[For reference to items not shown in index see note, p. 851]

	Page		Page
Athletic goods <i>See</i> Sporting, etc., goods	444-446	Beans—Continued.	
Atlantic coast district	444-446	Foreign trade	509, 557, 586
449, 451, 453, 492, 496, 497		Prices	697, 699
Australia, trade with United States	448	Beef	
485, 490, 755		Summary, consumption, production, etc.	655
Austria	215, 297, 488	Cold-storage holdings	663
Austria-Hungary	488	Foreign trade	501, 570, 655
Automobile insurance	314	Prices	326, 332, 654
Automobile tires	325, 328, 341, 348, 512, 830	Production	655, 666
Automobiles <i>See</i> Motor vehicles.		Beet pulp	557, 719
Awings, tents, and sails	794	Beet sugar. <i>See</i> Sugar.	
Azores and Madeira Islands	447, 488	Beets, sugar	604, 608, 669, 670, 704, 719
Babbit metal and solder	532, 760, 806	Belgian Congo, trade with United States	448, 490
Bacon	332, 333, 504	Belgium	215, 216, 297, 298, 497
Bags	517, 524, 565, 586, 794, 797, 823	Trade with United States	447, 486, 488, 709, 755
Bahama Islands, trade with United States	447	Bell telephone system	359, 361
Bakers	55, 342, 344	Belting	507, 513, 517, 560, 830
Baking powders	543, 799	Belting and hose	794
Balance of international payments	467	Benzene	775
Balance of trade	461, 468-471	Bermuda, trade with United States	447, 486
Bananas	326, 451, 557, 586	Berries	510, 557, 604, 671, 672, 718
Bankers, brokers, and money lenders	60	Beverages	57, 58, 183, 184, 502, 512, 560, 792, 841
Banks		Bicycles, motor cycles, and parts	541, 809, 832, 837
All reporting banks	264-266	Billiard room, etc., keepers	691
Clearings	286-288	Billiard tables, bowling alleys, etc.	549, 796
Debts to individual accounts	289-291	Birds, imported	555
Failures of	321, 322	Birth registration area	83, 91
Federal intermediate credit banks	285	Births. <i>See under</i> Vital statistics	
Federal land banks	280-282	Blackberries and dewberries	671
Federal reserve banks	248-260	Blackings, stains, and dressings	543, 799
Acceptances purchased and held	248, 250, 252	Bleaching compounds	544, 581, 826
Assets and liabilities	248, 249	Blind population	65, 68, 69
Bills discounted	248, 250, 251, 253	Blind, schools for	123, 124
Branches, volume of operations	257	Bluing, manufacture	799
Cleaning operations	260	Boarding and lodging house keepers	62
Discount rates	254, 255	Boats. <i>See</i> Vessels	
Earnings, annual rate	259	Bolivia, trade with United States	485, 486
Gold fund	256, 257	Bonds, prices, sales, and issues	315-317
Money held by	247	Bone and horn manufactures ( <i>see also</i> Ivory, etc., work)	555
Profit and loss account	259	Bone, carbon, and lampblack	545, 799, 823
Reserve ratio	249	Bones, hoofs, and horns	508, 555
United States securities	248, 250, 252	Bookbinding and blank-book making	798
Volume of operations	258	Books, maps, etc.	121, 548, 584, 707, 830
Federal reserve system member banks	260-284	Boots and shoes	
Accommodations at reserve banks	261	Summary	801, 829
Assets and liabilities	260-263	Employment and pay-roll indexes in industry	347
Loans and investments, by classes	264	Foreign trade	507, 512, 554
Joint-stock land banks	260, 284	Persons engaged in manufacture	56, 58, 801
Loans and trust companies	267, 275	Prices	325, 327
National banks	267-275	Rubber	512, 801, 830
Assets and liabilities	267-271	Sales indexes	317, 318
Dividends and earnings	274	Wages and hours of labor in industry	338
Deposits	267-269, 271	Borates	745
Loans and discounts	268, 269, 271-273	Borneo, trade with United States	448
Note circulation	268, 269	Boxes	57, 58, 524, 572, 796, 797
Number and resources, by States	270	Bradstreet's wholesale price index	329
Securities owned	269, 271, 273	Bran	328, 556, 718
Summary, by States	271	Brands and stencils	811
Other than national banks, summary	274	Brandy, fruit	841
Private banks	267, 275	Brass, bronze, and copper products	56, 58, 760, 806
Reserve, lawful	265, 271, 274, 275	Foreign trade	531, 577, 578
Savings banks	268, 275, 277	Brazil	297, 298
Savings deposits in all banks	275, 276	Trade with United States	448, 485, 486, 755
State banks	267, 275	Bread	326, 332, 556
Tax returns	197	Bread and other bakery products	509, 556, 791
Barbados, trade with United States	486	Brick	325, 328, 520, 574, 780, 781
Barley		Brick, tile, terra-cotta, and fire-clay products	56, 57, 348, 415, 526, 574, 780, 781, 803
Summary	695	Bridges, public, construction, etc.	383
By States	684	British Africa	448, 485, 490, 755
Acres and production	604, 608, 669, 670, 684, 695	British East Indies	448, 485, 488, 755
Foreign trade	451, 508	British Guiana	448, 486
Prices	326, 685, 695, 714, 735	British Honduras	447, 486
Receipts at Atlantic ports	715	British India. <i>See</i> India	
Barrels, drums, and tanks, steel	576, 804	British Malaya	485, 488, 755
Barytes	742, 745	British Oceania	490
Basalt	742, 779	British West Indies	447, 486, 755
Baskets, and rattan and willow ware	571, 796	Brokers and agents	60, 197, 321, 322
Bathtubs, lavatories, etc.	529	Brokers' loans	316
Batteries	533, 834	Bromine production	745
Bauxite	435, 530, 577, 742, 744, 756	Broom corn	515, 671, 697, 699
Beads and bead ornaments	585	Brooms	57, 58, 515, 810
Beans		Brushes	549, 585, 810
Summary	697, 699	Buckwheat	508, 556, 669, 670, 693, 714, 718
Acres and production	604, 608, 670, 672, 697, 699	Building and loan associations	279
Canned	718		

	Page		Page
Building materials, prices.....	324, 325, 328, 846	Cement.....	
Building operations.....	843-848	Summary.....	778, 779
Building trades, union wages and hours of labor.....	342, 344	Apparent consumption.....	778
Buildings.....	843-848	Foreign trade.....	525, 573, 778
Farm.....	613, 619	Manufacture.....	348, 802
Bulgaria.....	297, 447, 488	Prices.....	325, 328
Bunker coal for vessels in foreign trade.....	524, 765	Production.....	745, 778, 779
Bunker oil for vessels in foreign trade.....	524, 773	Stocks.....	778
Burglary and theft insurance.....	314	Traffic movement.....	415, 434, 435
Burlap.....	335, 435, 565, 586	Central American States, trade with United States (see also each State).....	447, 485, 486, 755
Business finance.....	297-322	Cereals (see also individual cereals).....	508,
Busses, motor.....	426, 541	556, 586, 604, 608, 669, 670, 672	
Butter.....		Certificates of indebtedness.....	210, 212-214, 252
Cold-storage holdings.....	659, 663	Ceylon.....	448, 485, 488
Foreign trade.....	505, 551, 586	Chain stores, sales indexes.....	317
Manufacture.....	666, 790	Chalk.....	526, 575
Prices.....	326, 332, 333, 654, 659	Charities, hospitals, and corrections.....	221,
Production.....	656-659, 666	230, 231, 236	
Receipts at leading markets.....	659	Chauffeurs.....	59, 343, 344
Traffic movement.....	414	Cheese.....	
Butterfat sold on farms.....	656	Cold-storage holdings.....	659, 663
Buttons.....	57, 58, 549, 585, 810	Foreign trade.....	505, 551, 586
Cabbage.....	672, 698	Manufacture.....	666, 790
Cable railways.....	421	Prices.....	326, 332-334, 654, 659
Cable systems.....	363-365	Production.....	656, 658, 659, 666, 790
Cable transfers, exchange rates.....	297-299	Receipts at leading markets.....	659
Cadmium, production.....	744	Cheese and butter, traffic movement.....	414
Calcium magnesium chloride, production.....	745	Chemicals and allied products.....	
Calculating machines.....	539, 808, 831	Foreign trade.....	451, 503, 542, 580, 587
Call money, interest rates, New York.....	300, 301	Manufacture.....	788, 798, 826-829
Calves.....	650, 653-655, 666	Prices.....	324, 325, 328
Canada.....	297, 298, 497	Traffic movement.....	415, 434
Trade with United States.....	448, 478, 485, 486, 755	Chemicals and allied products industry:.....	
Adjusted for grain shipped through Canada for export to Europe.....	482	Summary.....	788, 798
Canals.....		Corporation tax returns.....	187-190, 194, 196, 198
Erie and all New York State canals.....	432, 434	Employment and pay-roll indexes.....	347, 848
Panama.....	173, 178, 180, 439-441	Persons employed.....	56, 57, 788, 798
Sault Ste. Marie.....	432, 433	Cherries.....	510, 557, 608, 671, 718
Traffic of each canal.....	432	Chewing gum.....	511, 791
Canary Islands.....	447, 490	Chicago, financial statistics.....	232-
Candles.....	549, 799	237, 240, 270-272, 288-290	
Candy-store chains, sales index.....	317	Chickens (see also Poultry).....	332, 654, 660-662
Cane, sugar.....	604, 670, 705, 706, 719	Chile.....	297, 298
Canes. See Umbrellas and canes.		Trade with United States.....	448, 485, 486, 755
Canned goods, traffic movement.....	415	China.....	297, 299
Canning and preserving. 56, 58, 666, 718, 737, 738, 790		Trade with United States.....	448, 485, 490, 755
Cantaloupes and muskmelons.....	608, 672	China firing and decorating.....	803
Cape Verde Islands.....	443	Chinese, number in United States.....	4, 5, 15, 17, 623
Capital issues.....	315, 316	Chinese wood (or nut) oil.....	501, 586
Capital stock taxes.....	183, 184	Chocolate and cocoa.....	511, 559, 710, 719, 790
Car and railroad shops, employees.....	56, 58, 400	Chromite, production.....	744
Car loadings, railway.....	417	Churches.....	63, 64, 846
Carbon and manufactures of.....	526, 575, 834	Cider and vinegar.....	792
Carbon black, bone black, etc.....	545, 799, 828	Cigars and cigarettes.....	348,
Cargo tonnage.....		514, 563, 595, 596, 810, 841, 842	
Domestic commerce.....	429	Cigar-store chains, sales index.....	317
Passing through Panama Canal.....	440-441	Circulation of money.....	245, 247
Water-borne imports and exports.....	429, 444-452	Circulation of newspapers and periodicals.....	830
Carpets and rugs.....	56, 58, 323, 348, 792, 825	Cities, principal.....	
Foreign trade.....	518, 568, 586	Building operations.....	843-846
Carnages, wagons, etc.....	56, 58, 348, 542, 809, 837	Climate conditions.....	141-152
Carrots, production.....	672	Cost of living and food prices indexes.....	329-332
Cars, railway (see also Motor vehicles, etc.):.....		Department stores, sales indexes.....	318
Electric.....	348, 422, 426, 541, 809, 837	Fatalities caused by motor vehicles.....	390
Steam.....	348, 395-398, 541, 809, 837	Finance and banking.....	272, 287-291
Casem, dried.....	556, 658, 666	Fire losses.....	304, 305
Cash registers.....	539, 808, 831	Manufactures.....	820, 821
Casings.....		Prices (coal, electricity, gas).....	373, 767, 771
Automobile.....	512, 830	Population.....	43, 45-49
Sausage.....	504, 550, 586	Postal service.....	355
Cassava. See Tapioca, etc.		Vital statistics.....	79, 81, 84, 85, 88, 90
Castor beans.....	561	Citizens, arrivals and departures.....	103, 104
Cattle.....		Citizenship of foreign-born of voting age.....	40
Foreign trade.....	504, 550	Civil service.....	
Grazing in national forests.....	724	Classified service—Examinations, etc.....	164, 165
Inspected and slaughtered.....	655, 666	Retirement.....	163, 178, 180
Number and value.....	641, 647-650	Clams.....	718, 736, 737
Prices.....	326, 653, 654	Clay.....	451, 525, 573, 742, 745
Receipts and shipments at markets.....	651, 652	Clay and products, trade.....	503, 525, 573, 587
Traffic movement.....	414	Clay products.....	451, 525, 573, 745, 780, 781, 803
Cattle feed, prices.....	325, 328	Persons employed in industry.....	56, 57, 803
Cauliflower.....	672	Cleaning and polishing preparations.....	799
Celery.....	672	Cleaning houses, transactions.....	280-288
		Cleaning operations of Federal reserve banks.....	260
		Cleical occupations, persons engaged.....	51, 53, 54, 62

[For reference to items not shown in index, see note, p. 851]

	Page
Climatic conditions at specified stations.....	141-152
Clocks and clock materials.....	56, 57, 603, 548, 584, 807
Clothing, etc., value as national wealth.....	293
Clothing stores, sales indexes.....	317, 318
Cloths and clothing ( <i>see also</i> Textile industry).	
Foreign trade.....	515-520, 562-569, 586, 587
Manufacture.....	56-58, 792-795, 823-826
Prices.....	324, 325, 327, 329, 330
Traffic movement.....	434
Clover seed.....	514, 562, 604, 608, 697, 714
Coal.	
Summary.....	764, 765
Bunker, laden on vessels.....	524, 765
Consumption.....	367, 419, 766, 770
Foreign trade.....	499, 503, 524, 572, 765
Prices.....	325, 327, 333, 335, 765-767
Production.....	742, 745, 764
Traffic movement.....	415-417, 433-435
Coal-land entries of public lands.....	129, 131, 134, 135
Coal mines.....	742
Summary.....	782, 783
Accidents and fatalities.....	840
Explosives used.....	768
Labor strikes.....	741,
Men employed, days worked, etc.....	742, 765, 782, 783
Size of enterprises.....	741
Wages and hours of labor.....	340, 741
Coal-tar products.....	503, 542, 580, 587, 826
Coast Guard Service.....	175, 441
Cobalt.....	579
Cocoa and cacao beans ( <i>see also</i> Chocolate and cocoa)	
Cocoa butter.....	334, 451, 511, 559, 586, 719
Cocoa, coffee, and tea, foreign trade.....	511, 558, 719
Cocoanuts.....	502
Cod and mackerel fisheries.....	451, 558, 671
Cod-liver oil.....	436, 736-738
Coffee.....	555
Foreign trade.....	451, 500, 511, 559, 586, 645, 709
Prices.....	326, 332, 334, 709
Coffins, undertakers' goods, etc.....	295
Coinage of mints.....	746
Coke	
Summary.....	769
Foreign trade.....	451, 524, 572, 769
Manufacture.....	801
Prices.....	325, 327
Production.....	745, 769, 770, 775, 776
Traffic movement.....	415-417, 434, 435
Coke-oven by-products.....	826
Coke ovens, men employed, accidents, etc.....	782, 783
Cold-storage holdings.....	659, 662, 663
Collars and cuffs, men's.....	517, 794
Collateral <i>See</i> Security for loans.	
Colleges and universities.....	108, 109, 117-121
Colombia.....	297, 448, 485, 486, 755
Combs and hairpins.....	811
Commerce:	
Domestic.....	429-432, 444
Foreign <i>See</i> Foreign trade	
Intercoastal.....	429, 430, 444
With noncontiguous territories.....	444, 462, 591-597
Traffic through Panama Canal.....	440, 441
Commercial failures.....	319-322
Commercial schools.....	103, 122
Concrete mixers.....	536, 831
Concrete products.....	802
Condensed milk.....	505, 551, 658, 666, 790
Confectiory.....	343, 511, 559, 791
Congressional representation, by States.....	163
Construction corporations tax returns.....	187-190,
	195, 196, 198
Construction cost index.....	846
Construction work, use of explosives.....	840
Consumption ( <i>see also</i> individual commodities), imports for.....	461, 472, 478, 587-589
Continents, trade by.....	479-491
Cooperage.....	522, 729, 796
Cooperative marketing and purchasing.....	638
Copper ( <i>see also</i> Copper and manufactures):	
Summary.....	757
Consumption.....	757
Foreign trade.....	531, 577, 587, 757, 758
Manufacture.....	56, 58, 760, 806

	Page
Copper—Continued.	
Prices.....	327, 335, 730
Production.....	742, 744, 757, 758
Traffic movement.....	433
Copper and manufactures, foreign trade.....	451,
	452, 499, 501, 531, 577
Copper-lead and copper-lead zinc ore.....	744
Copper, tin, and sheet-iron works.....	807
Coppersmiths and tinsmiths.....	59
Copra ( <i>see also</i> Coconut).....	334, 561, 586
Cordage and twine.....	515, 517, 518, 565, 566, 793, 825
Cork.....	
Corn:	
Summary.....	694
By States.....	678
Acreage, production, and value.....	604,
	608-670, 672, 678, 694
Foreign trade.....	451, 508, 566, 586, 713
Manufacture.....	713, 719
Prices.....	326, 333, 679, 694, 714, 715
Receipts at ports and markets.....	715, 716
Supply.....	712
Traffic movement.....	414, 435
Corn meal.....	332, 508, 715, 718
Corn sirup (glucose) and starch.....	511, 515, 719, 791
Corporations	
Assets and liabilities of.....	197
Capital issues.....	315, 316
Capital-stock tax.....	183, 184
Dividend and interest payments.....	188, 314
Income-tax.....	184, 186-197
Corsets and allied garments.....	520, 794
Cost of living, index numbers.....	329, 330
Cost payments <i>See</i> Governmental cost payments	
Costa Rica, trade with United States.....	447, 486
Cotton.	
Summary.....	668, 696, 708
By States.....	674-677
Acreage, production, and value.....	604,
	608, 668, 669, 671, 674, 696, 708
Consumption by mills.....	708, 838, 839
Foreign trade.....	451,
	499, 502, 515, 563, 586, 644, 645, 708, 709
Prices.....	326, 333, 334, 645, 674, 696, 708, 714
Stocks in consuming establishments.....	538
Traffic movement.....	414, 435
Cotton compresses and gins, wages and hours of labor in.....	341
Cotton manufacture:	
Summary.....	792, 823
Consumption of cotton.....	708, 838, 839
Cotton-goods industry.....	337, 348, 792, 823
Foreign trade in products.....	451,
	490, 500, 502, 515, 564, 586
Prices of products.....	325, 327
Spindles and spindle-hours.....	838, 839
Cottonseed	
Summary.....	696
By States.....	674-677
Consumption by mills.....	707
Foreign trade.....	561
Prices.....	674-677, 696, 714
Production.....	671, 674, 696, 707
Cottonseed and products, traffic movement.....	414
Cottonseed-oil mills.....	341
Cottonseed products	
Summary (production, value, and exports).....	707
Foreign trade.....	509, 511, 707
Manufacture.....	707, 800
Prices.....	326, 328, 333, 707
Cows.....	504, 647, 649, 650, 653
Crabs.....	551, 735, 737
Cranberries.....	671, 698
Cranes.....	832
Cream sold on farms.....	656
Crop land, acreage ( <i>see also</i> under Crops).....	615,
	624, 626
Crops ( <i>see also</i> individual crops and Farm products):	
Summary.....	641, 667
Acreage production and value, all crops.....	670
Hypothetical value, by States.....	673
Change in value due to change in production and to lower prices.....	669
Fed to livestock.....	641

[For reference to items not shown in index, see note, p. 851]

Page	Page
Crops—Continued.	Duties collected on imports <i>See</i> Customs
Indexes of production and yield..... 667	revenue..... 31, 82, 44
On irrigated lands..... 603, 604, 608, 609	Dwellings, families, and homes..... 793
Orchard..... 604, 608, 671, 700, 701	Dyeing and finishing textiles..... 670
Percentage of acreage in each principal..... 670	Dyestuffs, etc.
Truck..... 672	Foreign trade..... 451, 502, 513, 542, 562, 581, 586, 587
Value per acre of 10 leading..... 667	Manufacture..... 799, 826, 827
Cruelities..... 526, 803	Earnings, factory employees ( <i>see also</i> Wages
Crude materials..... 329, 474-476, 478, 482-484	and individual industries)..... 345-350
Cuba..... 215, 297, 497	Earths and minerals, ground, etc..... 803
Trade with United States..... 447, 485, 486, 585, 755	East Indies ( <i>see also</i> British and Netherland
Cucumbers, acreage and production..... 672	East Indies)..... 448
Cumants..... 558, 671	Ecuador, trade with United States..... 448, 485, 486, 755
Currency circulation and stock..... 245-247	Education
Customs area of the United States..... 3	Summary of school and college enrollment..... 108
Customs districts..... 453, 492-496	Commercial schools..... 108, 122
Customs revenue..... 169, 171, 173, 179, 461, 472, 496	Elementary and secondary schools..... 107-116
By tariff schedules..... 587	Expenditures for, by State and city govern-
Customs service, expenditures for..... 175	ments..... 221, 230, 231, 236, 237
Outlery and edge tools..... 529, 576, 805	High schools and academies..... 108, 114, 115
Czechoslovakia..... 215, 216, 297	Land grants for educational purposes..... 133
Trade with United States..... 485, 488	Libraries, universities, colleges, etc..... 121
Dairy cows..... 647, 649, 650, 653	Normal schools and teachers' colleges..... 108, 109, 117
Dairy products ( <i>see also</i> individual products)..... 325,	Nurse training schools..... 122
326, 434, 502, 505, 551, 586, 645, 656-659	Private and parochial schools..... 108,
Danymen's supplies, etc..... 811	109, 115, 117, 123, 124
Dance-hall keepers. <i>See</i> Billiard rooms, etc.	Reform schools..... 122
Dases..... 558, 586	Schools for the blind, the deaf, and the
Deaf-mutes..... 65-67	feeble-minded..... 123, 124
Deaf, schools for..... 123, 124	Schools, colleges, etc., of outlying posses-
Death and death rates. <i>See under</i> Vital	sions..... 110-123
statistics..... 123, 124	Summer schools..... 122
Death registration area..... 77, 91	Universities, colleges, and professional
Debits to individual bank accounts..... 289-291	schools..... 108, 118-121
Debts due from foreign governments..... 215-217	Vocational education..... 124-127
Debts of Government organizations <i>See</i>	Vocational rehabilitation..... 128, 162
Public debt	Educational buildings..... 846-848
Deficit or surplus of United States Govern-	Egplant, commercial crop..... 672
ment..... 169, 170	Eggs
Denmark..... 297	Cold-storage holdings..... 662, 663
Trade with United States..... 447, 485, 488	Foreign trade..... 505, 552, 586
Density of population..... 2, 10	Prices..... 326, 332, 333, 642, 654, 662
Dental goods..... 547, 584, 811	Production..... 656, 661
Department store, sales index..... 318	Receipts at principal markets..... 662
Depositors, savings, in banks..... 275-277	Traffic movement..... 414
Deposits	Eggs and dairy products, exports..... 614, 645
All reporting banks..... 264-266	Egypt..... 447, 485, 490
Federal reserve banks..... 249	Electoral vote, by parties and States..... 187
Federal reserve member banks..... 261-263	Electric and gas light on farms..... 639
Loan and trust companies..... 267, 275	Electric fixtures. <i>See</i> Gas, etc., fixtures
National banks..... 267-269, 271	Electric light and power
Postal Savings System..... 278	Prices of electricity..... 373
Private banks..... 267, 275	Public-utility power plants..... 367-372
Savings, in banks..... 275-277	Value of privately owned stations..... 293
Savings banks..... 268, 275, 277	Electric light and power corporations, tax re-
State banks..... 267, 275	turns..... 197
Desert land entries of public lands..... 129, 131, 134	Electric motors in power plants and fac-
Diamonds..... 574	tories..... 369, 372, 787
Diatomite and tripoli, production..... 745	Electric railways <i>See</i> Railways, electric
Disabled persons, vocational rehabilitation	Electrical machinery, apparatus, and supplies
for..... 128, 162	Foreign trade..... 503, 532, 579, 587
Disasters to vessels..... 442	Manufacture..... 57, 58, 348, 808, 832-834
Disbursements <i>See</i> Expenditures.	Electrodes..... 526, 834
Discount operations of Federal reserve banks..... 250,	Electroplating..... 807
251, 253-255	Elevated and subway railways..... 422, 423, 427
Diseases, deaths from..... 82, 89	Eman 7..... 526, 575, 745, 802, 812
Dividend payments..... 188, 259, 274, 314	Emmer and spelt <i>See</i> Grain sorghums
Divorced persons..... 22-27, 40	Employees
Divorces and annulments..... 91, 92	Civil service..... 161, 165
Domestic and personal service..... 51, 53, 54, 61, 62	Coal mines..... 55, 741, 742, 765, 782, 783
Dominican Republic..... 447, 486, 755	Each gainful occupation..... 51-62
Drainage of farm lands and drainage enter-	Electric light and power plants..... 57, 58, 369
prises..... 609-611	Manufactures ( <i>see also</i> Wage earners, manu-
Dressmakers and seamstresses..... 55	factures)..... 51, 53-55, 345-349, 785
Druggists' preparations, manufacture..... 799	Mineral industries..... 51, 53-55, 740-742, 782, 783
Drugs..... 317, 318, 325, 502, 513, 561, 799	Railways..... 59, 60, 399-401, 421, 422
Drug-store chains, sales index..... 317	Telegraph systems..... 59, 354, 365
Drums, tanks, and barrels, steel..... 576, 804	Telephone systems..... 59, 359, 361
Ducks..... 660	Employment indexes, factories..... 845-850
Dun's wholesale price index..... 329	Enameling and enameled ware..... 348, 529, 807, 811
Dutiable merchandise imports, summary..... 461, 472	Engines (steam and internal combustion) and
Adjusted for wheat and wool classed duti-	water wheels
able but entered free..... 478	Foreign trade..... 535, 579
By countries..... 485	Manufacture..... 808, 831, 832
By economic classes..... 476, 478	England, trade with United States ( <i>see also</i>
By tariff schedules..... 587-589	United Kingdom)..... 447



[For reference to items not shown in index, see note, p. 851]

	Page		Page
Engraving.....	798	Feathers and plumes.....	508, 555, 811
Envelopes.....	524, 797	Federal aid for public roads.....	375, 382, 384
Erie Canal, freight movement.....	434	Federal estate tax.....	183, 184, 208
Estate tax.....	183, 184, 208	Federal intermediate credit banks.....	285
Estonia.....	215, 216, 447, 488	Federal land banks.....	280-282
Ethiopia, trade with United States.....	490	Federal reserve banks <i>See under Banks</i>	
Europe, trade with United States.....	479-485, 488, 497, 709	Feeble-minded persons.....	65, 71, 73, 123, 124
Exports to, adjusted for grains shipped through Canada.....	482	Feed.....	
Evaporated milk.....	505, 551, 658, 666, 790	Expenditures for, on farms.....	637
Excelsior, manufacture.....	795	Foreign trade.....	502, 509, 556, 645
Exchange rates.....	297-299	Manufacture.....	718, 719
Exchanges, clearing house.....	286-288	Prices.....	325, 328
Executive Office, Government expenditures for.....	175, 180, 182	Feldspar production.....	742, 745
Expeditionary forces, strength of.....	155	Felt goods.....	518, 519, 570, 792, 825
Expenditures of States and cities <i>See Gov-</i> ernment-cost payments		Fermented liquors.....	183, 184, 560, 800, 841
Expenditures of United States Government.		Ferro-alloys.....	503, 530, 577, 744, 749
Summary.....	169, 170	Fertilizers.....	
By departments and establishments.....	180	Amounts sold.....	677
By major classes.....	172	By-products of fisheries.....	737
By months.....	179	Farm expenditures for.....	636
Details of, by departments.....	175-178	Foreign trade.....	503, 545, 582, 587
Postal Service.....	170, 178, 351, 353	Manufacture.....	56, 57, 348, 799, 828
Public debt.....	169, 170, 178-180	Prices.....	325, 328
Reclamation projects.....	599-602	Traffic movement.....	415, 434
Vocational education and rehabilitation.....	124- 128, 162	Fidelity insurance.....	314
Explosives.....	545, 548, 583, 798, 840	Figs.....	558, 671
Exporters, importers, and wholesale dealers..	61	Files.....	529, 805
Exports ( <i>See Foreign trade</i> ).....		Fillers.....	828
Agricultural export indexes.....	645	Finance ( <i>see also Banks</i> ).....	
Relation to production.....	163	Business.....	297-322
Express companies.....	420	National Government.....	169-217
Express revenues of railways.....	410	State, municipal, and local governments..	219-243
Factories. <i>See Manufacturing industry</i>		United States Shipping Board.....	175, 180, 442
Failures.....		War Finance Corporation.....	180, 285
Bank.....	321, 322	Financial institutions, tax returns.....	187-190, 195, 197, 198
Commercial.....	319-322	Finland.....	297
Falkland Islands, trade with United States..	486	Trade with United States.....	447, 488
Families.....	31, 32, 44	Firearms.....	503, 548, 584, 804
Far East, trade with United States.....	490	Fire-clay products.....	525, 780, 781, 803
Farm animals.....	647-656	Fire extinguishers.....	549, 807
Farm labor, wages.....	636, 642, 643	Fire insurance.....	302-304
Farm-loan associations, national.....	282	Fires.....	304, 305
Farm-loan bonds purchased by United States		Fireworks.....	548, 563, 799
Government.....	180	Fish.....	
Farm-loan capital issues.....	315	Canning and preserving.....	718, 736-738, 790
Farm-mortgage loans.....	264, 273, 280-285, 632, 634	Cold-storage holdings.....	663
Farm prices, index numbers.....	323, 642	Foreign trade.....	502, 505, 551, 586
Farm products ( <i>see also Crops and individual</i> <i>products</i> ).....		Prices.....	334, 738
Prices.....	323-326, 642	Products of fisheries.....	733-737
Purchased and sold through farmers' <i>or-</i> ganizations.....	638	Propagation.....	738
Value.....	641	Fish oils.....	508, 555, 737
Farmers and farm laborers.....	55	Fisheries.....	436, 733-738
Farms.....		Fishermen and oystermen.....	55, 735
Summary.....	613	Fiume <i>See Yugoslavia</i>	
Acreage.....	613, 615, 616, 622, 624, 626, 627, 629, 630	Five-and-ten-cent store chains, sales index...	317
Crop land harvested.....	615, 624, 628	Fixtures <i>See Gas, etc., fixtures</i>	
By color, etc., of operator.....	623, 624, 628-630	Flags and banners.....	794
By distance from nearest market and kind		Flavoring extracts, syrups and bitters.....	512, 791
of road located on.....	635	Flax.....	334, 565, 793
Drainage.....	600-611	Flax, hemp, and ramie manufactures.....	502, 517, 565
Expenditures for labor, fertilizer, and feed.....	636, 637	Flaxseed.....	
Facilities reported on farms.....	639, 640	Summary.....	695, 699
Irrigation.....	605	Acreage and production.....	604, 609, 670, 695, 699
Labor.....	636, 643	Foreign trade.....	326, 334, 695, 699, 714, 715
Mortgage status and debt.....	632-634	Prices.....	326, 334, 695, 699, 714, 715
Number.....	613, 616, 621-623, 625, 627-630	Floor coverings, felt-base.....	519, 795, 825
Number reporting sales through farmers' <i>or-</i> ganizations.....	638	Flooring, composition, and wall plaster.....	802
Population on.....	613, 614	Flour.....	
Size.....	621-624, 631	Foreign trade.....	451, 508, 509, 556, 713
Tenure.....	623-628, 630, 631	Freight rates.....	717
Value of all products.....	641	Manufacture.....	718, 791
Value of crops.....	641, 667, 668, 670, 673	Prices.....	326, 332, 333
Value of farm property.....	613, 618-620, 631	Traffic movement.....	414, 433, 434
Value of livestock.....	613, 619, 647-650	Receipts at Atlantic ports.....	715
Value of livestock products.....	641, 650	Flour and grain mills.....	56, 58, 348, 718, 791
Fatalities. <i>See Accidents and fatalities.</i>		Flowers, artificial.....	520, 810
Fats. <i>See Oils, and also Lard.</i>		Fluorspar.....	434, 742, 745

[For reference to items not shown in index, see note, p. 851]

	Page		Page
Foodstuffs ( <i>see also individual commodities</i> )		Foreign trade—Continued.	
Foreign trade	473-478, 482-484	Reexports of foreign merchandise	461, 468, 470
Manufacture	666, 718, 788, 790	By individual commodities	586, 587
Prices	323-326, 329-332	Relation of exports to production	463
Forage, acreage and production	604	Value of imported merchandise as national	
Foreign exchange rates	608, 669, 670, 672	wealth	293
Foreign governments	297-299	Vessels engaged in	436, 437, 452-457
Capital issues in United States	315	Foreign white stock, by mother tongue	35
Obligations of, purchased by United States		Foreign-born population	33-40
Government	180	Forest products ( <i>see also individual products</i> )	641,
Obligations to United States Govern-		721, 722, 724-731	
ment	173, 215-217	Foreign trade	644
Foreign mails, weight	354	Traffic movement	415-417
Foreign trade		Forests	721-724
Summary	429, 444, 461, 462, 464, 466-471	Foundries and machine shops	339, 545, 508
Agricultural products	644, 645	Fowls. <i>See Poultry</i>	
Export indexes	645	Frames, mirror and picture	796
By coastal districts	444-446, 449-452, 496	France with United States	215, 216, 297, 298, 497
By commercial regions and countries	447, 486-491	Trade with United States	447, 485, 488, 709, 755
By commodity groups and articles	504-587	Fraternal orders, insurance	312
By commodity groups and subgroups	502, 503	Free merchandise imports	461, 472, 476-478, 485
By continents	479-491	Freight carried by steam railroads	404,
By countries	447, 485-491	405, 409, 412, 414-417	
By customs districts	492-496	Freight handlers (longshoremen), union wages	
By economic classes of commodities	473-478,	and hours of labor	343, 344
482-484		Freight rates	
By individual commodities—1		Per ton-mile	405, 409, 433
Exports	504-549	On grain, flour, and provisions	717
Animals and animal products, edible	501, 505	On wheat	710, 717
Animals and animal products, inedible	506-508	Via Sault Ste. Marie Canal	433
Vegetable food products and beverages	508-512	French Africa	490
Vegetable products, inedible, except fibers		French Guiana	448, 486
and wood	512-515	French Indo-China	448, 489
Textiles	515-520	French Oceania	490
Wood and paper	520-524	French West Indies	486
Nonmetallic minerals	524-527	Fruits ( <i>See also Fruits and nuts</i> )	
Metals and manufactures, except ma-		Summary of production	671
chinery and vehicles	527-532	Acreage and production	604, 608, 669, 671, 700, 701
Machinery and vehicles	532-543	Canning and preserving	718, 790
Chemicals and related products	542-546	Foreign trade	510, 557, 586, 645
Miscellaneous	546-549	Prices	326, 701
Imports	550-585	Traffic movement	414
Animals and animal products, edible	550-552	Fruits and nuts	451, 498, 500, 502, 510, 557, 604
Animals and animal products, inedible	552-556	Fuel ( <i>see also individual classes</i> )	
Vegetable food products and beverages	556-560	Annual supply of energy from	367
Vegetable products, inedible, except fibers		Consumption	367, 419
and wood	560-563	Manufacture	801
Textiles	563-570	Fuel and lighting, prices	324, 325, 327, 329, 330
Wood and paper	570-572	Fuel oil	327, 367, 419, 524, 572, 775-777
Nonmetallic minerals	572-575	Fuel or bunker coal laden on vessels	524, 765
Metals and manufactures of except ma-		Fuel or bunker oil laden on vessels	524, 773
chinery and vehicles	576-579	Fuller's earth, production	745, 745
Machinery and vehicles	579, 580	Fur goods	500, 502, 507, 554, 811
Chemicals and related products	580-583	Furnaces, blast	338, 749, 754, 804
Miscellaneous	583-585	Furnishing goods, men's	793
Reexports	586, 587	Furniture	56, 58, 325, 415, 434, 523, 529, 571, 796
By major commodities and coastal districts	451	Furniture and furnishings, prices	324, 325, 329, 330
By method of carriage	458, 459	Furniture, carriages, etc., value as national	
By months	466	wealth	293
By nationality of carrier	445, 446, 458, 459	Furs and manufactures	500, 502, 507, 554, 586, 811
By ports	430	Gadsden Purchase, area and date of accession	1
By principal commodities		Galvanizing industry	804
Exports	498	Games and toys	547, 584, 813
Imports	500	Garage keepers and managers	59
By States and ports	449	Garnet (abrasive), production	745
By trade regions	446-448	Garters, suspenders, etc.	520, 794
Continental United States	444, 492	Gas	
Export prices	333, 464, 645	Consumed by power plants	367
Exports adjusted for grain shipped through		Manufactured	57, 58, 325, 327, 770, 771, 801
Canada to Europe	482	Natural	367, 745, 770, 771, 772
Gold and silver	461, 464, 467, 469, 470	Gas and electric fixtures	807
Import prices	334, 464	Gas and electric light on farms	639
Imports for consumption	461, 472	Gas and fuel oil	524, 775, 776
Dutiable, by tariff schedules	587	Gas machines and gas and water meters	539, 808, 832
Imports, free and dutiable	461, 472, 476, 478, 485	Gases, compressed and liquefied	826, 829
Adjusted for wheat classified dutiable but		Gasoline	
entered free	478	Natural gasoline	745, 772, 774-776
In transit and transshipment trade	497	Refined	327, 333, 434, 524, 572, 775-777
Index numbers of quantity, price, and		Gasoline taxes	386
value	464	Geese	660
Of Great Lakes ports	429, 444, 445, 450, 451	Gelatin ( <i>see also Glue</i> )	505, 552, 555
Of noncontiguous territories	444, 591-596	Gems and precious stones	526, 574, 745
Per capita	471	General merchandise, traffic movement	433, 434

<sup>1</sup> For important individual commodities see references thereto in index. For commodities not indexed separately see reference to appropriate groups shown in italics

[For reference to items not shown in index, see note, p. 851]

	Page
Georgia, Republic of, trade with United States.....	447
Germany.....	297, 298, 497
Trade with United States.....	447, 485, 488, 709, 755
Gibraltar, trade with United States.....	488
Glass.....	56, 57, 323, 348, 503, 525, 573, 780, 803
Glass sand, production.....	746
Gloves.....	507, 512, 517, 554, 564, 794, 824
Glucose. <i>See</i> Corn siup.....	
Glue.....	508, 555, 799
Glycerin.....	543, 581, 828
Goats.....	647, 650, 655, 724
Gold.....	
Coin and bullion in the United States.....	246, 247
Coinage of mints.....	245
Earmarked for foreign account.....	465
Exports and imports.....	461, 464, 467, 469, 470, 579
For use in manufactures and the arts.....	763
Leaf and foil.....	807
Produced from mines.....	742, 744, 762
Ratio of silver to.....	763
Reducing and refining.....	806
Value of, as national wealth.....	293, 295
Gold Coast, trade with United States.....	448
Gold funds, settlement and Federal reserve agents.....	256, 257
Goldsmiths and silversmiths.....	55, 56, 58
Government cost payments.....	
Of cities.....	230-243
Of States.....	221-223
Government departments.....	164, 175-178, 180-182
Gozo, Malta, and Cyprus Islands.....	488
Grain ( <i>see also individual classes</i> ).....	
Foreign trade.....	451, 502, 508, 550, 586, 644, 645
Freight rates.....	717
Manufacture.....	718, 719
Prices.....	325, 326, 642
Receipts at ports.....	715
Shipped through Canada for export to Europe.....	482
Traffic movement.....	414, 433, 434
Grain corporation.....	180
Grain sorghums (kaffir, milo, etc.).....	608, 609, 670, 697, 699, 715
Granite.....	742, 779
Grape sugar.....	511
Grapefruit.....	510, 557, 671
Grapes.....	510, 558, 608, 671
Graphite.....	527, 575, 742, 745, 803
Grass seed, foreign trade.....	514, 562
Gravity railways.....	421
Grazing, stock, in national forests.....	724
Grease and tallow, manufacture.....	799
Grease, petroleum.....	525, 775
Great Britain <i>See</i> United Kingdom.....	
Great Lakes.....	
Commerce of ports.....	429, 430, 444, 445, 450, 451
Vessels engaged in commerce.....	436
Greece.....	215, 216, 297
Trade with United States.....	447, 485, 488
Greenland, trade with United States.....	447, 486
Grindstones.....	526, 745, 802
Groceries ( <i>see also individual commodities</i> ).....	817, 818, 434
Guam.....	1, 3, 110-113, 356, 357, 594
Guatemala, trade with United States.....	447, 486
Guana, trade with United States.....	448, 486
Guinea fowls.....	660
Gulf Coast district.....	444
Gums, resins, etc.....	498, 502, 513, 560, 586, 731, 827
Gypsum.....	451, 526, 575, 742, 745
<b>Har and manufactures.....</b>	<b>502, 519, 568, 587</b>
Harcloth.....	793
Har work.....	811
Haiti, trade with United States.....	447, 486
Hams.....	323, 504, 654
Harbors <i>See</i> Waterways, etc.....	
Hardware.....	348, 530, 805
Harness and saddles.....	56, 58, 507, 802
Hats and hat materials.....	
Foreign trade.....	502, 518, 520, 566, 568, 586
Manufacture.....	56, 57, 792, 794, 811, 825

	Page
Hawai:	
Acquisition and organization.....	1
Area and population.....	1, 3, 6
Banks.....	265, 270-272
Cane and cane-sugar production.....	702, 705
Educational statistics.....	110-119, 121, 122
Internal revenue.....	185, 186, 191, 192, 203-207
Mines and quarries.....	740
Trade.....	496, 592, 595, 596
Other statistics.....	137, 278, 356, 357, 394
Hay.....	
Summary.....	698
By States.....	692, 693
Acreage and production.....	604, 608, 669, 670, 692, 693, 698
Foreign trade.....	509, 556
Prices.....	326, 692, 693, 698, 714
Traffic movement.....	414, 434
Heading.....	522, 729
Health and sanitation.....	221, 230, 231, 236
Health insurance.....	314
Hemp.....	335, 435, 505, 586, 793
Hemp, flax, and ramie.....	502, 517, 565, 586
Hens, prices.....	332
Hides and skins.....	
Foreign trade.....	500, 502, 506, 552, 586, 645
Manufacture.....	660
Prices.....	325, 327, 334
Hides and leather products.....	324, 325, 327, 414, 434, 451
Highways.....	
Summary of construction, mileage, etc.....	375
Construction and mileage, by States.....	376-379, 384
Expenditures for.....	221, 230, 236, 380, 381, 383, 384
Source of funds available for.....	382
Wages in road building.....	341
Hogs. <i>See</i> Swine.....	
Home economics, vocational training in.....	124-127
Homes.....	31, 32, 44
Homestead entries.....	120, 130, 134
Homicides.....	90
Honduras, trade with United States.....	447, 486
Hones and whetstones.....	802
Honey.....	511, 559, 656
Hong Kong.....	297, 485, 490, 755
Hooks and eyes <i>See</i> Needles, etc.....	
Hoops.....	729
Hops.....	515, 563, 671, 697
Horns <i>See</i> Bones, etc.....	
Horses.....	508, 555, 586, 647, 648, 650, 724
Horses and mules.....	414, 651, 652
Horseshoes.....	529, 755, 804
Hose, rubber.....	513, 800
Hosiery.....	327, 517, 519, 564, 568, 824
Hospitals ( <i>see also</i> Charities, etc.).....	65, 71-73, 159, 162, 175
Hotel keepers and managers.....	62
Hotels.....	846
Hours of labor.....	
Coal industry.....	340, 741
Mines and quarries.....	341, 741
Sundry manufacturing industries.....	337-341
Union, in specified trades.....	342-344
House-furnishing goods.....	324, 325, 328-330, 795, 796
Housing cost, index.....	329, 330
Hungary.....	215, 216, 297, 488
Hunters, trappers, and guides.....	62
<b>Ice cream.....</b>	<b>348, 658, 790</b>
Ice, manufactured.....	415, 792, 828
Iceland, trade with United States.....	488
Illitacy.....	
Of population 10 years of age and over.....	28-30
Of aliens.....	94
Illuminating oil. <i>See</i> Kerosene.....	
Immigration and emigration.....	
Summary.....	93, 101, 103
Aliens debared and deported.....	94
By age groups.....	94
By countries.....	95, 97, 101-103
By occupation, money brought, etc.....	94
By race.....	98-100
By sex.....	94, 100
Iliterates admitted.....	94

[For reference to items not shown in index, see note, p. 851]

Immigration and emigration—Contd.	Page	Irrigation enterprises—Continued.	Page
Immigration quotas.....	102, 105	Cost of operation and maintenance.....	607
National origins as basis for immigration.....	105	Crops grown on irrigated land.....	608, 609
Implements and machinery on farms.....	613, 619	Government projects—	
Importers, exporters, and wholesale dealers.....	61	Acreage.....	603, 604
Imports <i>See</i> Foreign trade.		Construction cost and repayments.....	599, 600
Income and profits tax.....	169, 171, 173, 179, 183-186	Construction work.....	605
Corporation.....	184, 186-195	Crops grown on.....	603, 604
Individual.....	184, 186, 199-207	Financial statistics.....	599-603
Income-tax returns		Value of, as national wealth.....	293
Corporation.....	186-198	Italian Africa, trade with United States.....	490
Personal.....	186, 199-207	Italy.....	215, 216, 297, 299, 497
Index numbers. <i>See</i> respective subjects.		Trade with United States.....	447, 485, 488, 709, 755
India.....	297, 299	Ivory Coast, trade with United States.....	448
Trade with United States.....	448, 485, 488, 755	Ivory, shell, and bone work.....	811
India rubber. <i>See</i> Rubber.		Ivory tusks, in natural state.....	556
Indian lands.....	129, 134, 136		
Indians.....		Jamaica, trade with United States.....	447, 486
Famols.....	623	Japan.....	297, 299
Number of.....	4, 5, 15, 17, 136	Trade with United States.....	448, 485, 490, 709, 755
Government expenditures for.....	172, 177	Japanese—	
Marital condition.....	22	Farmers.....	623
Industrial buildings.....	846-848	Number in United States.....	4, 5, 15, 17
Infants' food, malted milk, etc.....	505, 658	Japanese and Chinese, marital condition.....	22
Inheritance tax.....	183, 184, 208	Japanning and enameling industry.....	811
Ink.....	547, 800	Java and Madua, trade.....	448, 488
Insane and other mentally diseased in hos-		Jewelry.....	55, 56, 58, 532, 579, 807
pitals.....	65, 71-73	Joint-stock land banks.....	280, 284
Instruments, professional and scientific.....	503,	Jute and jute butts.....	334, 451, 665
	546, 583, 811	Jute and manufactures.....	335, 451, 517, 565, 586, 793, 825
Insurance.....		Jute manufactures.....	502, 565
Agents and officials of companies.....	60	Juvenile delinquents.....	65, 74
Casualty, surety, etc.....	313, 314		
Fire, marine, and lightning.....	302-304	Kafir ( <i>see also</i> Grain sorghums).....	715
Fraternal orders.....	312	Kerosene (illuminating oil).....	333, 524, 573, 775-777
Life.....	160, 161, 163, 305-312	Knit goods.....	
Losses by fire.....	304	Foreign trade.....	517-519, 564, 568, 569
Miscellaneous, by classes.....	314	Manufacture.....	348, 792, 824
Mutual accident and sick benefit.....	313	Kongo, Belgian. <i>See</i> Belgian Congo.	
Tax returns of companies.....	197	Kurdistan. <i>See</i> Armenia, etc.	
United States Government life.....	160, 161, 163	Kwantung, trade with United States.....	490, 755
Interest on the public debt.....	172, 178, 180		
Interest payments.....	314	Labels and tags.....	797
Interest rates, call money, acceptance and		Labor, farm ( <i>see also</i> Hours of labor and	
time loans, New York.....	300, 301	Wages).....	636, 642, 643
Interior customs district.....	496	Labor in road building, wages.....	341
Intermediate credit banks, Federal.....	285	Labor strikes in coal mines.....	768
Internal revenue ( <i>see also</i> Income and profits		Laboreis.....	56, 57, 59-62
tax).....	169, 171, 173, 179, 183-185	Lace industry.....	
Internal waterways, traffic.....	429-435	Summary.....	792, 823
International money orders.....	351, 352, 357	Foreign trade in products.....	517, 565, 569
International payments, balance of.....	467	Lake traffic.....	429, 430, 444, 445, 450, 451
Investments of banks. <i>See</i> Banks.		Lamb ( <i>see also</i> Mutton and lamb).....	550
Iraq (Mesopotamia).....	448	Lambs, prices.....	653, 654
Ireland, trade with United States.....	447	Lampblack <i>See</i> Carbon black, etc.	
Irish Free State, trade with United States.....	488	Lamps.....	534, 540, 879
Iron—		Lands ( <i>see also</i> Public lands)	
One—		Farm.....	613, 615-618, 620, 622, 624, 626, 627, 629, 630
Foreign trade.....	451, 452, 503, 527, 576, 748	Mortgaged.....	281, 284, 632-634
Prices.....	327	In drainage enterprises.....	609-611
Production.....	742, 744, 748	Irrigated.....	603-609
Shipments.....	748	Lapidary work.....	811
Traffic movement.....	415, 433	Lard.....	
Used in blast furnaces.....	749	Summary, consumption, production, etc.....	655
Pig—		Cold-storage holdings.....	663
Foreign trade.....	527, 576, 750, 755	Foreign trade.....	505, 655
Prices.....	327, 756	Prices.....	326, 332, 333, 654
Production.....	744, 749, 750	Production.....	655, 666
Traffic movement.....	415, 433	Lath.....	522, 527, 570, 729
Iron and steel, and manufactures		Latin America, trade with United States.....	490
Foreign trade.....	451,	Latvia.....	215, 216, 447, 488
452, 499, 503, 527, 576, 587, 751, 754, 755		Laundry workers.....	62, 344
Prices.....	325, 327, 335, 756	Law schools.....	120
Production.....	749-754, 789, 803-805	Lawn mowers.....	540, 832
Traffic movement.....	434, 435	Lead.....	
Iron and steel industry		Summary.....	759-760
Summary.....	789, 803-805	Consumption.....	760
Blast furnaces, steel works, and rolling		Foreign trade.....	531, 578, 587, 760
mills.....	338, 749, 754, 803	Manufacture.....	56, 58, 780, 806
Employment and pay-roll indexes.....	347, 348	Prices.....	327, 739, 759
Persons employed.....	56, 58, 754, 789, 803-805	Production.....	744, 759, 760
Production index.....	822	Lead-zinc ore.....	744
Structural iron work.....	804	Leather.....	
Wages and hours of labor.....	338	Foreign trade.....	498, 502, 506, 553, 586
Irrigation enterprises—		Prices.....	325, 327, 333
Summary.....	605	Production.....	801, 828
Acreage, of and capital invested in.....	606, 607		

[For reference to items not shown in index, see note, p. 851]

	Page		Page
Leather and leather products industry (see also Boots and shoes)		Malta, Gozo, and Cyprus Islands	488
Summary	789, 801, 802	Malted milk	505, 658
Corporation tax returns	187, 188, 190, 194, 196, 198	Manganese and manganese ore	451, 577, 742, 744
Employment and pay-roll indexes	347, 348	Manganiferous ore	744
Foreign trade in products	502, 506, 553	Manila	335, 566, 586, 596
Persons employed	56, 58, 789, 801, 802	Manufactured products	
Prices of products	325, 327	Exports in relation to	463
Production	789, 801, 802	Foreign trade	463, 473, 475, 477, 482-484
Production index	822	Traffic movement	415, 416
Leather, artificial	520, 795, 825	Value of See under Manufacturing industry	
Legislative establishment, Government expenditures for	175, 180, 182	Wholesale price index	329
Legumes cut for hay	608	Manufacturers and officials	57
Lemons	510, 557, 608, 671	Manufacturers' excise tax	183, 184
Lesser Antilles, trade with United States	447	Manufacturing and mechanical industries, persons employed	51, 53-55
Lettuce	672	Manufacturing industry (see also individual industries)	
Liability insurance	314	Summary	785
Liberia	215, 448, 490	Capital issues	315, 816
Liberty loan bonds	209, 213, 214	Earnings (weekly and hourly) of labor in	350
Libraries	121, 230, 231, 236	Employment, pay-roll, and operation indexes	345-349
Library and school buildings	846-848	Establishments, wage earners, value of products, etc.—	
Life insurance	160, 161, 163, 305-312	By general groups of industries	788, 789
Light and power See Electric light and power		By individual industries	790-814
Limbs, artificial	517, 810	By size of establishments	786
Lime	328, 415, 525, 544, 573, 581, 745, 802	By States	815-819
Limestone	573, 742, 779	Failures	321, 322
Linemen, union wages and hours of labor	344	Index of production	822
Linon goods	517, 565, 586, 793, 825	In principal cities	820
Linooleum and oil cloth	519, 569, 795, 825	Persons employed	51, 53-55, 785
Linseed oil	328, 513, 561, 800	Power used	785, 787-819
Liquors, fermented and distilled	183, 184, 512, 560, 800, 841	Tax returns	187-190, 194-198
Lithography	798, 880	Value as national wealth	293
Lithuania	215, 216, 488	Wages and hours of labor in	337-341
Livery-stable keepers and managers	59	Manufacturing machinery, etc., value as national wealth	293, 294
Livestock (see also Animals and individual classes)	293, 294, 325, 414, 434, 613, 619, 642	Maple sugar and sirup	559, 670, 706
Livestock insurance	314	Marble	525, 573, 742, 779
Loan and trust companies	267, 275	Marble and stone work, manufacture	56, 57, 802
Loans		Marine Corps, strength of	154
Bank	261-266, 268, 269, 271-275, 280-285	Marine and fire insurance	302
Brokers'	316	Marital condition of population	22-27, 44
Foreign	215-217	Marketing and purchasing through farmers' organizations	638
Public debt	209-214	Markets, primary	651-653, 659, 662, 664, 716
To carriers	214	Marriages, divorces, and annulments	91, 92
Loobsters	551	Married persons	22-27, 44
Locomotives	395-398, 422, 426, 533, 535, 831, 832	Matches	549, 583, 796
Lodging houses	846	Mats and matting	566, 793
Logs	415, 431, 434, 435, 451, 520, 570, 587	Mattresses and bed springs	520, 812
Louisiana purchase, area and date acquired	1	Meal, corn	332, 508, 715, 718
Lubricants, grease and oil	328, 524, 525, 573, 775-777, 800	Meat and meat products (see also Slaughtering and meat packing)	
Lumber		Summary	655
Foreign trade	499, 501, 503, 521, 570	Cold-storage holdings	663
Prices	325, 328, 333, 335, 727, 728	Foreign trade	451, 498, 502, 504, 550, 645, 655
Production	725, 726	Production	325, 326, 332, 333, 654
Traffic movement	415, 433, 434	Production	655
Lumber and allied products industry		Traffic movement	414
Summary	788, 795	Mechanical and manufacturing industries, persons employed	51, 53-55
Corporation tax returns	187-190, 194, 196, 198	Medicinal and pharmaceutical preparations	503, 542, 581, 587
Employment and pay-roll indexes	347, 348	Merchandise exports and imports See Foreign trade	
Persons employed	55, 56, 58, 788, 795	Merchant marine	
Production index	822	Disasters to	442
Wages and hours of labor	340	Number and tonnage	436-439, 143, 444
Macaroni, spaghetti, and noodles	509, 556	Of the world	438, 439
Machine shops and foundries	339, 808	Mesopotamia See Iraq	
Machine tools	345, 536, 537, 508, 832, 833	Metal mines See Mines and quarries	
Machinery (see also individual classes)		Metals and metal products (see also individual metals)	
Foreign trade	452, 499, 503, 532, 579, 587	Summary of production of metals	739, 742, 744
Manufacture	789, 808, 831-835	Foreign trade	451, 452, 503, 527, 576, 587
Traffic movement	415, 434	Manufacture	789, 803
Madagascar, trade with United States	443, 490	Prices	324, 325, 327
Madeira Islands and Azores, trade	447, 488	Traffic movement	415, 434
Madura and Java, trade	448, 488	Metals and metal products industries (see also individual industries)	
Magnesia	576, 742, 745	Summary	789, 803-807
Mail carriers	59	Accidents	782, 783
Mail cars	397	Corporation tax returns	187-190, 195, 196, 198
Mail carried	353, 354		
Mail revenues of railways	410		
Malaya, British	485, 488, 755		
Malt	508, 791		
Malt liquors See Liquors, etc			
Malta, trade with United States	447		

[For reference to items not shown in index, see note, p. 851]

	Page
Metals and metal products industries—Con.	
Employment and pay-roll indexes.....	347, 348
Production index.....	822
Wages and hours of labor.....	341
Meters, gas and water, and gas machines.....	539,
	808, 832
Mexican border district, trade.....	453, 492, 496, 497
Mexican cession, area and date of accession.....	1
Mexico.....	297, 298, 497
Trade with United States.....	447, 485, 486, 755
Mica.....	527, 575, 587, 742, 745
Midwives and nurses (untrained).....	62
Military and naval services abroad.....	3
Milk.....	
Foreign trade.....	505, 551
Malted.....	505, 658
Manufacture.....	658, 666, 790
Prices.....	326, 332, 333, 654
Production.....	656-658
Sugar, production.....	658, 660
Milliners and millinery dealers.....	57
Millinery and lace goods (see also Lace industry and Hats, etc.).....	348
Millstones.....	742, 745
Mineral and soda waters.....	512, 560, 745
Mineral land entries, etc.....	129, 131, 134
Mineral oil See Petroleum.	
Mineral paints.....	545, 582, 742, 745
Minerals and mineral products (see also Mines and quarries and each mineral):	
Summary of mineral production.....	739, 744-746
By States.....	747
Foreign trade.....	503, 524, 527, 572, 576, 587
Index of production.....	822
Manufacture.....	788, 789, 801-807
Principal products of each State.....	748
Mines and quarries.....	
Summary.....	740-743
Accidents and fatalities.....	752, 783
Corporation tax returns.....	187-190, 194, 196, 197
Explosives used.....	840
Persons employed.....	51, 53-55, 740-743, 782, 783
Size of producing establishments.....	741
Strikes in coal mines.....	768
Wages and hours of labor.....	340, 341, 741
Miquelon and St. Pierre Islands.....	486
Mirrors.....	803
Mississippi River traffic.....	432, 435
Models and patterns (not paper).....	812
Mohair.....	567, 656
Molasses.....	451, 511, 559, 705, 719
Monazite See Thorium	
Money (see also Banks):	
Brought by immigrant aliens admitted.....	94
Coinage.....	245
Exchange rates.....	297-299
In circulation and stock of.....	245-247
Interest rates, New York.....	300, 301
Money orders (postal) issued.....	351, 352, 357
Monuments, national.....	138-140
Morocco.....	447, 490
Mortgages.....	
On farms.....	264, 273, 280-285, 632, 634
On homes.....	31, 32, 44
Moss, seaweed, etc.....	563
Mother tongue of foreign white stock.....	35
Mother-of-pearl.....	556
Motor corporations, capital issues.....	315
Motor pictures (see also Photographic material).....	546, 583, 812, 832, 834
Motor vehicles.....	
Employment and pay roll in industry.....	348
Fatalities caused by.....	32, 350-391
Foreign trade in.....	540, 580, 587
Manufacture.....	56, 58, 809, 832, 837
On farms.....	639, 640
Prices.....	325, 328
Production.....	385, 386
Registration.....	385, 387, 888
Revenue from, by States.....	388
Traffic movement.....	415, 434
Value of, as national wealth.....	293, 295
Wages and hours of labor in industry.....	339
Mozambique, trade with United States.....	448, 490
Mucilage, paste, etc.....	799
Mules (see also Horses and mules).....	508, 647, 648, 650

	Page
Municipal capital issues.....	315
Music, publishing and printing.....	797
Musical instruments.....	503, 547, 584, 810, 836
Mutton.....	550, 654
Mutton and lamb.....	504, 550, 655, 666
Nails.....	327, 333, 528, 576, 750, 753, 755
Naphtha.....	775
National banks. See under Banks.	
National farm loan associations.....	282
National forests.....	722-724
National Government finance See Revenue receipts, Expenditures, Public debt, etc	
National Guard, strength of.....	153, 154
National parks, and monuments.....	137-139
National wealth.....	293-296
Natural gas.....	745, 771, 772
Natural gasoline.....	745, 772, 774-776
Naturalized citizens permanently departed.....	108
Naval and military services abroad.....	3
Naval stores, gums, resins, etc. (see also Turpentine).....	452, 498, 502, 513, 560
Navy.....	
Officers and enlisted men.....	154
Vessels in.....	155, 156
Navy Department.....	164, 172, 176, 180, 182
Needles, pins, and hooks and eyes.....	530, 577, 807
Negro population. See Population, by color or race	
Netherlands.....	297, 299, 497
Trade with United States.....	447, 485, 488, 755
Netherland East Indies.....	448, 485, 488, 755
Netherland Guiana (Surinam).....	448, 486
Netherland West Indies.....	486
Nets and seines.....	794
Newfoundland and Labrador.....	485, 486
Newsboys.....	60
Newspapers and periodicals.....	343, 344, 348, 797, 830
New York City:	
Clearing-house transactions.....	286, 287
Debts to individual accounts.....	289, 290
Exchange rates.....	297-299
Interest rates.....	300, 301
National banks.....	270, 271, 272
Stock-exchange transactions.....	317
New Zealand.....	448, 485, 490, 755
Nicaragua.....	215, 447, 486
Nickel.....	531, 578, 744
Nigeria, trade with United States.....	448
Nitrates, foreign trade.....	451, 582, 587
Nitrogen compounds.....	545, 582, 826
Noncontiguous territory See each territory	
Normal schools and teachers' colleges.....	108, 109, 117
North America, trade with United States.....	479-487, 497
Exports to, adjusted for grains shipped through Canada for Europe.....	482
Northern border districts.....	453, 492, 496, 497
No way.....	297
Trade with United States.....	447, 485, 488, 755
Notes.....	
Federal reserve.....	245, 246, 249
National bank.....	245, 246, 268, 269
Stock and circulation of.....	245, 246
Victory, Liberty loan, and Treasury.....	209, 210, 212-214
Nurse training schools.....	122
Nursery and greenhouse stock.....	502, 514, 563
Nuts (see also Fruits and nuts).....	511, 558, 586, 671
Oats:	
Summary.....	694
By States.....	682
Acreage and production.....	604,
	608, 669, 670, 672, 682, 694
Consumed in flour mills.....	718
Foreign trade.....	509, 556
Prices.....	326, 683, 694, 714, 715
Receipts at ports and markets.....	715, 716
Supply.....	714
Traffic movement.....	413
Obligations of foreign Governments.....	215-217
Occupations of entire population (see also individual occupations and industries).....	50-62
Shift in.....	62
Oceania, trade.....	479-481, 483-485, 490, 497

[For reference to items not shown in index, see note, p. 851]

	Page
Office appliances.....	539
Office supplies, foreign trade.....	503, 547
Ohio River traffic.....	432, 434, 435
Oil and gas well operatives.....	55
Oil cake and oil-cake meal.....	333, 498, 509, 556
Oil, cake, and meal, cottonseed.....	509, 511, 707, 800
Oil corporations, capital issues.....	315
Oil lands withdrawn from general settlement.....	135
Oilcloth and linoleum.....	519, 569, 795, 825
Oils.....	
Animal (and fats)....	493, 502, 505, 508, 550, 555, 645
Fish.....	508, 555, 737
Fuel, consumption.....	367, 419
Mineral.....	<i>See</i> Petroleum products.
Vegetable.....	
Consumption.....	660
Foreign trade.....	500, 502,
511, 513, 553, 561, 586, 645, 707	
Prices, cottonseed oil.....	326, 333
Production.....	707, 800
Oilseeds.....	502, 513, 561, 586
Oilstones, production.....	745
Oleomargarine.....	326, 505, 560, 791
Onions.....	509, 537, 604, 672, 698
Operation indexes. <i>See under</i> Manufactures,	
Employment, etc.....	
Optical goods.....	546, 583, 812
Oranges.....	326, 510, 557, 608, 671, 698
Orchard products. ( <i>See</i> Fruits and Fruits	
and nuts.....	
Ordinance and accessories, exports.....	548
Ore-dressing plants.....	782, 783
Ores (crude) ( <i>see also each ore</i> ).....	744
Organs and pianos.....	56, 58, 348, 547, 584, 810, 836
Ostriches.....	660
Oysters.....	718, 736
Ozocerite. <i>See</i> Wax, mineral	
Pacific coast district.....	444-446, 450-453, 492, 496, 497
Paints, varnishes, etc.....	325, 328, 545, 582, 800, 828
Palestine and Syria, trade.....	447, 488
Panama.....	
Canal.....	173, 178, 180, 439-441
Canal Zone.....	110-115, 447
Republic.....	447, 486
Paper.....	
Foreign trade.....	451, 501, 503, 523, 572, 587
Manufacture.....	731, 788, 797
Prices.....	328, 335
Paper and printing.....	347, 348, 822
Paper and pulp industry.....	
Summary.....	731, 797
Corporation tax returns.....	187-190, 194, 196, 198
Employment and pay-roll indexes.....	348
Wages and hours of labor.....	341
Paper and wood pulp.....	325, 328, 730, 781, 797
Paper box-board industry.....	341
Paraffin wax.....	525, 573, 775, 776
Paraguay, trade with United States.....	478
Parcel post.....	354, 459
Parks, national.....	137
Parties, political.....	166, 167
Passengers arrived and departed.....	103, 104
Pasture, acreage and crop value.....	604, 615
Patent medicines and compounds.....	799
Patents and certificates of registration.....	849
Paupers in almshouses.....	65, 70
Paving materials, manufacture.....	812
Pay-roll indexes, factories.....	345-350
510, 604, 608, 669, 671, 700, 701, 718	
Peaches.....	510, 553, 586, 689, 670, 697, 689, 714, 791
Peanuts.....	326, 511, 553, 586, 689, 670, 697, 689, 714, 791
Pears.....	510, 604, 608, 671, 700, 701, 718
Peas.....	509, 557, 586, 608, 670, 672, 718
Peat production.....	745
Pecans.....	558, 671
Pencils.....	547, 585, 812
Pens.....	547, 585, 812
Pensions.....	
Civil-service retirement.....	163
Disbursements for.....	158, 172, 177
Number of pensioners.....	158
Peppers.....	672
Perfumery, cosmetics, etc.....	503, 546, 583, 799, 823
Persia, trade with United States.....	483
Peru.....	297, 497
Trade with United States.....	418, 485, 486, 755

	Page
Petroleum and products:	
Crude oil.....	
Foreign trade.....	451, 524, 572, 773, 775
Pipe lines.....	774, 777
Prices.....	327, 333, 335
Production.....	745, 773-775
Stocks.....	774
Traffic movement.....	415, 433, 434
Foreign trade.....	452, 499, 501, 503, 524, 572, 587, 773
Output of refineries.....	775, 776
Prices.....	325, 327, 333, 777
Stocks.....	774, 775, 776
Supply and demand.....	775
Traffic movement.....	415, 434, 435
Petroleum refining.....	57, 58, 348, 775, 776, 801
Philippine Islands.....	
Area, population, and date of accession.....	1, 3, 6
Education.....	110-113, 115, 116, 122, 123
Other statistics.....	185, 265, 762
Sugar produced and brought from.....	702
Trade.....	448, 485, 490, 593, 595, 596, 755
Phonographs.....	547, 584, 810, 836
Phosphate lands.....	135
Phosphate rock.....	545, 742, 745
Photo-engraving.....	798
Photographic apparatus and material ( <i>see also</i>	
Motion pictures).....	503, 546, 583, 812
Pianos and organs.....	56, 58, 348, 547, 584, 810, 836
Pickles, preserves, and sauces.....	510, 557, 718
Pig iron. <i>See under</i> Iron	
Pigeons.....	660
Pins. <i>See</i> Needles, etc.	
Pipe.....	
Copper.....	531
Iron and steel.....	327, 348, 434, 528, 576, 750, 753, 804
Sewer.....	415, 780
Pipe lines.....	293, 774, 777
Pipes, tobacco.....	585, 812
Plaster, wall, and composition flooring.....	802
Plastics.....	549, 585, 826
Plated ware.....	532, 807
Plate-glass insurance.....	314
Plates and sheets.....	
Iron and steel.....	527, 576, 750-753, 755
Other metals.....	530, 577, 760
Platinum.....	532, 579, 739, 744
Plumbago. <i>See</i> Graphite	
Plumbers and gas and steam fitters.....	57
Plumbers' supplies, manufacture.....	805
Plums and prunes.....	510, 604, 608, 671, 718
Pocketbooks.....	507, 802
Poland.....	215, 216, 297
Poland and Danzig, trade with United States.....	488
Pomelos. <i>See</i> Grapefruit	
Popular vote for presidential electors.....	166
Population.....	2-62
Cities in the United States.....	43, 45-49
Continental United States, summary.....	2, 3
Age distribution.....	11, 18, 20
Blind.....	65, 68, 69
By States.....	7-9
Citizenship of foreign-born whites.....	40
Color or race, nativity, and parentage.....	4,
12-17, 19-21	
Deaf and dumb.....	66-67
Density of.....	2, 10
Dwellings, families, and homes.....	31, 32, 44
Foreign-born.....	33-40
Foreign white stock, by mother tongue.....	35
Illiterates.....	28-30
Males 18 to 44 years of age.....	21
Marital condition.....	22-27, 44
National origin of white.....	105
Occupied persons.....	50-62
On farms.....	613, 614
Race.....	4, 12-17, 19-21
School.....	107, 110
Sex distribution.....	5, 16, 17
Twenty-one years of age and over.....	20, 21
Urban and rural.....	34, 41-44
Vital statistics of. <i>See</i> Vital statistics.	
Indian reservations.....	136
Outlying possessions.....	3, 6
Registration area for deaths and births.....	77, 83

[For reference to items not shown in index, see note, p. 851]

	Page		Page
Pork		Professional service	
Summary, consumption, production, etc.	655	Immigrants qualified for	94
Cold-storage holdings	663	Persons engaged in	51, 53, 54, 61, 62
Foreign trade	504, 550, 655	Provisions, freight rates on	717
Prices	333, 654	Public buildings	846, 847
Production	655, 666	Public debt	
Portland cement	See Cement.	All classes of Government organizations	220
Porto Rico		Local governments	220, 227, 228
Area, population, and date of accession	1, 3, 6	National Government—	
Educational statistics	110-113, 115, 116, 118-123	Expenditures on account of	169, 170, 178-180
Sugar produced	702	Interest paid on	172, 178, 180
Trade	496, 592, 595, 596	Principal of	209-214, 220
Other statistics	265, 356, 357, 740	By specific loans	209, 212
Portugal	297, 447, 488	Receipts	170, 175
Portuguese Africa, trade	448, 490	Transactions	212, 214
Postal revenues, expenditures, etc.	176-172,	Principal cities	240-243
	175, 178, 351-353	States	220, 224-227
Postal savings system, transactions of	278	State and local governments combined	229
Postal Service	164, 165, 177, 351-357	Public lands	
Potash	451, 583, 745	Summary of entries and patents	129, 136
Potassium compounds	544, 581, 826	Grants for educational and other purposes	133
Potatoes		Homestead entries	129, 130, 134
Irish—		Indian reservations	136
Summary	696	National parks	137-140
By States	688	Railroad and wagon-road grants	129, 131, 132, 134
Acreage and production	604,	Receipts from	131, 134, 171, 173
	608, 669, 670, 672, 688, 696	Timber and stone, mineral, coal, and desert	
Foreign trade	509, 557	land entries	129, 130, 134
Prices	326, 332, 689, 696, 714	Unappropriated and unreserved	136
Traffic movement	414	Withdrawals from general settlement	135
Sweet and yams—		Public roads. See Highways	
Acreage and production	604, 669, 670, 690, 696	Public schools	107-116, 123, 124
Prices	691, 696, 714	Public service corporations, tax returns	187-190,
Pottery	56, 57, 341, 523, 574, 780, 803		195, 197, 198
Poultry	326, 414, 504, 550, 654, 656, 660-662, 663	Public service enterprises, governmental cost,	
Poultrymen, dairymen, and apiarists' supplies	811	payments for	221, 230-232, 234
Power		Public service, persons engaged in	51, 53, 54, 61
Annual supply of, from fuels and water	367	Public utilities (see also Railways, electric	
Capacity of steam locomotives	395, 397	light and power, etc.)	187-190,
Electric	367-372, 422, 425, 787		195, 197, 198, 315, 313
Used in manufactures	785, 787-819	Pullman cars, value as national wealth	236
Used in mines and quarries	740, 742, 743	Pullman Co.	420
Water, developed and potential	374	Pulpstones and grindstones	526, 745, 802
Power-site reserves	135	Pulp wood	335, 415, 451, 523, 571, 730
Precious stones and gems	526, 574, 745	Pumice, production	575, 745
Prices (for individual commodities see references thereto in index).		Pumps	536, 808
Bonds	317	Putty	828
Export	333	Pyrites	451, 575, 742, 745
Import	334	Quarries. See Mines and quarries	
Index numbers—		Quartz (silica), production	742, 746
Summary	323	Quicksilver	573, 739, 742, 744
Cost of living	329, 330	Race of:	
Export	464, 645	Aliens admitted and departed	98-100
Of prices paid by farmers for commodities		Iliterates 10 years of age and over	28-30
bought	642	Total population. See Population, by	
Farm prices	323, 642	color, etc	
Import	464	Radios	341, 534, 834
Retail food	323, 329, 642	On farms	640
Wholesale	323-329, 642	Railroad repair shops	787, 789, 809
Livestock	653, 654, 662	Rails, iron and steel	
Retail food	332	Consumed by railroads	419
Stocks	317	Foreign trade	528, 576, 751, 755
Wholesale, of leading commodities	326-328	Prices	327, 756
Printing and publishing	56, 58, 343, 344, 348, 797, 830	Production	750-752
Printing and publishing corporations, tax		Traffic movement	415
returns	187-190, 194, 196, 198	Railway and other construction work, explosives used in	840
Printing machinery	503, 539, 832	Railway Mail Service	353
Printing materials, manufacture	798	Railways and equipment, value as national	
Prisons and prisoners	65, 71, 75, 76	wealth	293, 295
Private banks	267, 275	Railways, electric	421-427
Private schools. See under Education		Busses operated by	426
Producer's goods, prices	329	Mileage, equipment, employees, finances,	
Production (for individual commodities see references thereto in index).		traffic, etc.	421-426
Animals	641, 647-650	Recoverships of	427
Animal products	641, 655, 656, 658	Subway and elevated lines	422, 423, 427
Exportable products	463	Value as national wealth	293
Farm products	604, 608, 641, 667-673, 695-698	Railways, steam	393-419
Fisheries	733-738	Accidents	418-419
Forest products	725-731	Alaskan	394, 421
Manufactures	735-821	Corporation-tax returns	59, 60, 399-401
Minerals	739-745	Employees	396-398
Professional and scientific instruments	503,	Equipment	
	546, 553, 811	Finance	
Professional schools	119, 120	Capitalization	315, 316, 402, 403
		Dividends and interest	314, 402, 403



[For reference to items not shown in index, see note, p. 851]

	Page		Page
Railways, steam—Continued.		Rubber	
Funded debt	402, 403	Foreign trade	451, 498, 500, 502, 512, 560, 586, 711
Investment	403	Manufacture	789, 801, 830
Payments and loans to, by United States		Prices	325, 328, 334, 711
Government	214	World production	711
Revenues and expenses	403-413	Rubber manufacturing industry	
Stocks and other outstanding securities	402, 403	Summary	789, 801, 830
Taxes and assessments	408, 410, 411	Capital issues	315
Freight traffic	404, 405, 409, 412, 414-417	Persons employed	57, 58, 789, 801
Fuel consumed	419, 766	Production index	822
Government expenditures for	178, 180	Tax returns	187-190, 194, 196, 198
Hawaiian	394	Rugs. <i>See</i> Carpets and rugs	
Land grants	129, 131, 132, 134	Rumania	215, 216, 297
Mileage	393-396, 408, 409, 412	Trade with United States	447, 488
Passenger traffic	407	Rural free delivery of mails	354, 358
Principal companies	412	Russia	215, 297
Rails and ties laid	419	Trade with United States	147, 443, 485, 488, 490
Receiverships	398	Rutile, production	744
Railway telegraph offices	364, 365	Rye	
Rainfall	141-152	Summary	604
Raisins	326, 510, 558, 718	By States	686
Raspberries and loganberries	671	Acres and production	604, 608, 669, 670, 686, 694
Rates		Consumed in flour mills	718
Freight	405, 409, 433, 716, 717	Foreign trade	451, 498, 509
Money		Prices	328, 333, 687, 694, 714, 715
Discount of Federal reserve banks	254	Receipts at Atlantic ports	715
Exchange	297-299	Saddlery and harness	56, 58, 507, 802
Interest and acceptance	300, 301	Safes and vaults	529, 805
Rattan ware. <i>See</i> Baskets, etc		Sago. <i>See</i> Tapioca, etc	
Raw materials. <i>See</i> Crude materials		Sails. <i>See</i> Awnings, etc	
Rayon (artificial silk)	327, 502, 519, 569, 587, 800	Salaries. <i>See</i> Wages and also individual industries and occupations	
Real estate agents and officials	60	Sale of surplus war material	217
Real estate, value as national wealth	293, 294	Sales of farm products through farmers' organizations	638
Receipts ( <i>see also</i> Revenue receipts)		Sales tax	183
Grain at Atlantic ports and markets	715, 716	Sales indexes, wholesale and retail	317, 318
Livestock and livestock products at principal primary markets	651, 652, 659, 662	Salmon	326, 505, 551, 718, 735-738
Reclamation Service, irrigation projects	599-605	Salt	
Recreation	221, 230, 231, 236	Foreign trade	527, 575, 781
Red Cross, expenditures and personnel	157	Manufacture	800
Reform schools	122	Prices	326
Refrigerators	549, 796	Production	745, 781
Registration area for births and deaths	77, 83, 91	Traffic movement	415, 433
Rehabilitation, vocational	128, 162	Salt well and works operatives	55
Religious organizations	63, 64	Salvador, trade with United States	447, 486
Representation, congressional, by States	168	Samoa, American	1, 3, 593
Reservations:		Sand and emery paper and cloth	812
Indian	136	Sand, glass, molding, building, etc	746
National parks, forests, etc	137, 722-724	Sand, gravel, etc	415, 434, 435, 525, 573
Reserve, lawful. <i>See</i> Under Banks.		Sand-lime, brick	746, 803
Residences, building permits and contracts	846-848	Sandstone	742, 779
Restaurant, café, and lunch-room keepers	62	Sanitation, expenditure for. <i>See</i> Health, etc.	
Retail dealers	60	Sault Ste. Marie Canal, traffic	432, 433
Retail sales indexes	317, 318	Sausage	
Retirement, civil service	163, 178, 180	Sausage casings	504, 550, 586
Revenue receipts		Savings deposits and other savings	275-280
Of principal cities	230-237, 241-243	Savings banks	268, 275, 277
Of States	221-223	Sawmill products	199, 501, 503, 521, 570, 725-728
Of United States Government—		Saws	529, 805
Summary	169, 170	Scales and balances	530, 808
By months	179	School and library buildings	846-848
By sources	171, 173	Schools. <i>See</i> Education.	
Customs	169, 171, 173	Scientific instruments	503, 546, 583, 811
From foreign governments under debt settlement	173, 215, 216	Scotland ( <i>see also</i> United Kingdom)	447
From national forests	173, 724	Screens, window and door, and weather strips	795
Internal revenue	169, 171, 173, 179, 183-185	Screws	530, 531, 805
Panama Canal	173, 439	Securities	
Postal	170, 175, 351, 352	Held by life insurance companies	307
Public debt	170, 175	Holdings by banks	248,
From public lands	131, 134, 171, 173	252, 261, 262, 264-266, 268, 269, 271, 273-275,	
Rice		280, 283	
Summary	608, 605	New issues	315, 816
By States	686	Owned by United States	217
Acres and production	608, 668-670, 686, 695	Prices and sales	317
Cleaning and polishing	719, 791	Transactions by banks	250, 251, 257, 258
Foreign trade	509, 556, 586, 645, 713	Security for loans by banks	264, 273, 281, 284
Prices	326, 332, 334, 687, 695	Seeds:	
Rivers, canals, etc., commerce	429, 431	Foreign trade	502, 513, 514, 561, 562, 586, 645
Road building, wages of labor	341	Acres and production	604, 608, 670, 672
Roads, public. <i>See</i> Highways.		Seines. <i>See</i> Nets, etc	
Roofing materials	549, 812	Semimanufactures	329, 474, 475, 477, 482-484
Root crops for storage	608	Semiskilled operatives	57, 58, 60
Rope	528, 753, 825	Senegal, trade with United States	448
Rosin	333, 513, 560, 731, 827		
Rosin and turpentine	795		

[For reference to items not shown in index, see note, p. 851]

	Page		Page
Service, public, corporation tax returns.....	187-190,	Sponges.....	508, 556, 586
	195, 197, 198	Spotting and athletic goods.....	503, 547, 584, 812
Sewing machines.....	328, 538, 580, 808, 832	Springs, steel, car and carriage.....	804
Sex distribution <i>See</i> Population, by sex.		Stamped and enameled ware.....	348, 529, 807, 811
Sheep.....		Stamps.....	
Foreign trade.....	504, 550	Hand.....	811
Grazing in national forests.....	724	Postage, issued.....	351, 354
Inspected and slaughtered.....	655, 666	Revenue from sale of documentary.....	183, 184
Number and value.....	647, 649, 650	Savings.....	211, 278
Prices.....	653, 654	Stamp tax.....	183, 184
Receipts at specified primary markets.....	651, 652	Star route mail service.....	354
Traffic movement.....	414	Star ch.....	328, 515, 563
Shellac.....	334, 560	State aid for public roads.....	375, 380, 384
Shellfish <i>See</i> individual varieties.		State banks.....	267, 275
Shells ( <i>see also</i> Ivory, etc., work).....	556, 586	State highways <i>See</i> Highways.	
Shingles.....	328, 522, 570, 729	State land grants.....	133
Shipbuilding.....	56, 53, 437, 438, 809	States.....	
Shipping <i>See</i> Merchant marine and Tonnage		Areas and dates of organization.....	1, 2
Shipping and canals, value as national wealth.....	293	Finances.....	219-227, 229
Shipping Board and Shipping Board Emergency Fleet Corporation.....		Population and rank.....	7-10
Financial statistics.....	178, 180, 442, 443	Taxes.....	221, 223
Vessels.....	437, 443-446	Value of property.....	220, 204-206
Shipping corporations, capital issues.....	315	Stationery goods.....	524, 572, 812
Shirts.....	348, 517, 569, 793	Statuary and art goods.....	549, 585, 587, 803
Shoemakers and cobblers.....	58	Staves.....	522, 729
Shoes <i>See</i> Boots and shoes		Steak, prices.....	332
Shoe stores, sales indexes.....	317, 318	Steam boiler insurance.....	314
Showcases, manufacture <i>See</i> Furniture		Steam engines and turbines ( <i>see also</i> Locomotives).....	369, 370, 535, 579, 787, 831
Shrimps.....	551, 718, 736, 737	Steam-fitting and steam and hot-water heating apparatus.....	348, 805
Siam, trade with United States.....	490	Steamboat Inspection Service.....	441
Signs and advertising novelties.....	812	Steel production ( <i>see also</i> Iron and steel and Iron and steel industry.....	749, 750, 752, 756
Silage crops, acreage, and production.....	608	Stereotyping and electrotyping.....	798
Silica, production.....	742, 746	Stock grazing in national forests.....	724
Silk, artificial (rayon).....	327, 502, 519, 569, 587, 800	Stock-raising homestead entries.....	129, 130, 134
Silk goods.....		Stocks, prices, sales, and issues.....	315-317
Foreign trade.....	451, 502, 519, 569, 587, 710	Stone.....	433-435, 525, 573, 742, 746, 779
Manufacture.....	348, 792, 824	Stone, clay, and glass products industry.....	
Prices.....	325, 327	Summary.....	789, 802
Silk, unmanufactured.....		Corporation tax returns.....	187-190, 194, 196, 198
Foreign trade.....	501, 502, 569, 587, 710	Employment and pay-roll indexes.....	347, 348
Prices.....	327, 335	Persons employed.....	56, 57, 789, 802
Silver.....		Production index.....	822
Bullion, value of.....	763	Stone and timber land, entries and patents.....	129,
Coin and bullion in the United States.....	245, 246		131, 134
Coinage of mints.....	245	Stone and granite cutters.....	59, 343, 344
Commercial value of, produced.....	762, 763	Stoves and hot-air furnaces.....	328, 348, 529, 805
For use in manufactures and the arts.....	763	Straits Settlements.....	297, 299, 448
Imports and exports.....	461, 464, 469, 470, 532, 579	Straw factories, employees.....	57, 58
Leaf and foil.....	807	Strawberries, acreage and production.....	671, 672
Prices.....	327, 763	Street-cleaning laborers.....	59
Production.....	742, 744, 762	Strikes in coal mines.....	763
Ratio of, to gold.....	763	Structural iron and steel.....	325,
Reducing and refining.....	806		327, 434, 527, 576, 750-753, 755
Single persons.....	22-27, 44	Structural iron works ( <i>see also</i> Iron and steel).....	59, 348, 804
Sirup.....	511, 670, 706, 719, 791	Students in universities and colleges.....	108, 117-120
Skating-rink keepers <i>See</i> Billiard room, etc.		Subway and elevated railways.....	422, 423, 427
Skilled occupations.....	58, 94	Sugar.....	
Skins <i>See</i> Hides, etc		Bought in from territories and possessions.....	702,
Slate.....	525, 742, 746	Consumption.....	702, 703
Slaughtering and meat packing.....	340, 348, 655, 666, 790	Foreign trade.....	451, 500, 502, 511, 559, 586, 702, 703
Slot vending machines.....	832	Maple, and sirup.....	511, 670, 706
Smelting and refining.....	806	Prices.....	326, 332-334, 703
Smelting plants, accidents at.....	782, 783	Production.....	668, 702-706, 719
Snap fasteners <i>See</i> Needles, pins, etc		Refining.....	348, 704, 719, 791
Soap.....	56, 57, 328, 503, 546, 583, 800, 828	Traffic movement.....	415, 434, 435
Society Islands.....	448	World production.....	702
Soda-water apparatus.....	812	Sugar beets.....	604, 608, 669, 670, 704, 719
Soda waters <i>See</i> Mineral, etc. waters		Sugar cane.....	604, 670, 705, 706, 719
Sodium compounds.....	544, 582, 826	Sugar crops.....	670, 672
Solder <i>See</i> Babbitt metal, etc		Sugar Equalization Board.....	180
Soldiers, sailors, and marines.....	61, 153-155	Suicides.....	90
Sorghums (kaffi, milo, etc.).....	608, 669, 670, 697, 699	Sulphur.....	434, 435, 451, 527, 742, 746
South America, trade.....	479-481, 483-487, 497	Sulphuric acid.....	328, 543, 581, 746, 800
Southeastern Express Co.....	420	Sumatra, trade with United States.....	448
Soy beans.....	670	Summer schools.....	122
Spain.....	297, 299	Sunday schools.....	64
Trade with United States.....	447, 485, 488, 709, 755	Sunshine, percentage of possible, in selected cities.....	141-152
Spelt and emmer, acreage and production.....	670	Surgical appliances.....	547, 812
Spice.....	502, 511, 559, 586	Surinam (Netherland Guiana).....	448, 486
Spinach.....	672, 718		
Spindles, cotton.....	838, 839		
Spirits, distilled.....	183, 184, 512, 560, 800, 841		

[For reference to items not shown in index, see note, p. 851]

	Page
<b>Surplus or deficit of United States Govern-</b>	
ment.....	169, 170
Suspenders, garters, etc.....	520, 794
Sweden.....	297, 299
Trade with United States.....	447, 485, 488
<b>Swine</b>	
Foreign trade.....	504, 550
Inspected and slaughtered.....	655, 666
Number and value.....	647, 649, 650
Prices.....	326, 653, 654
Receipts at specified primary markets.....	651, 652
Traffic movement.....	414
Switzerland.....	297
Trade with United States.....	485, 488
Syria and Palestine, trade.....	447, 488
<b>Tailors</b> .....	59
Talc and soapstone, production.....	742, 746
Talcum, French chalk.....	575
Tallow.....	328, 505, 550
Tanks, drums, and barrels, steel.....	576, 804
Tanneries.....	56, 58, 801, 829
Tanning extracts.....	513, 526, 799, 827
Tapioca, sago, cassava, and arrowroot.....	557
Tar.....	513, 542, 560, 770, 775
Tariff. <i>See</i> Customs revenue	
Tasmania, trade with United States.....	448
<b>Taxation</b> .....	
Express companies.....	420
For rural roads.....	375, 382, 386, 388
Motor-vehicle registration fees.....	388
National—	
Customs revenue.....	169,
171, 173, 179, 461, 472, 496, 587	
Internal revenue.....	169, 171, 173, 179, 183-185
Federal estate tax.....	184, 208
Corporation income tax.....	184, 186-195
Individual income tax.....	184, 186, 199-207
Railways.....	408, 410, 411, 413
State, municipal, and local—	
City taxes.....	230, 231, 234
Gasoline tax.....	386
General property tax.....	219, 221, 223
State taxes.....	221, 223
Tea.....	334, 559, 586, 710
Teachers.....	61, 107-109, 112, 115-118, 124
District of Columbia, retirement fund.....	178, 180
Teamsters and drivers, union wages and hours	
of labor.....	343, 344
Telegraph and telephone apparatus.....	534, 834
Telegraph and telephone companies	
Persons employed.....	59, 359, 361, 362, 364, 365
Tax returns.....	197
Value as national wealth.....	293
Telephone systems.....	59, 362-365
Telephone systems.....	59, 359-362
Telephones on farms.....	639
Temperature, selected cities.....	141-152
Tents. <i>See</i> Awnings, etc.	
<b>Tenure</b> .....	
Of farms.....	623-628, 630, 631
Of homes.....	31, 32, 34
Terra cotta. <i>See</i> Brick, etc.	
<b>Territorial accessions of the United States,</b>	
date and area.....	1
<b>Territories</b> .....	1, 3
<b>Textile industry</b>	
Summary.....	788, 792, 823
Corporation tax returns.....	187, 188, 190, 194, 196, 197
Employment and pay-roll indexes.....	347, 324
Persons employed.....	56-58, 788, 798
Production index.....	822
Wages and hours of labor.....	341
<b>Textile machinery</b> .....	537, 580, 587, 788, 832
<b>Textiles (see also individual commodities)</b>	
Foreign trade.....	502, 515, 563, 586
Prices.....	324, 325, 327
Traffic movement.....	415, 434
Theater admissions tax.....	183, 184
Theatrical scenery manufacture.....	813
Thread.....	513, 515, 564, 565, 823, 825
Ties, railroad.....	415, 419, 434, 520, 570
<b>Tile. See</b> Brick, etc.	
<b>Timber (see also Lumber)</b>	
Consumed in veneers.....	728
Land entries and patents.....	128, 131, 134

	Page
<b>Timber—Continued.</b>	
Removed annually.....	724, 727
Stand of.....	721, 722
Time loans, interest rates on.....	300, 301
Timothy seed.....	514, 714
Tin, bars, etc.....	327, 335, 501, 531, 578, 587, 739, 744
Tin plate and terneplate.....	327, 335, 527, 576, 750, 753
Tinsmiths and coppersmiths.....	59
Tinware.....	56, 58, 527, 805
Tires.....	325, 328, 341, 348, 512, 560, 801, 822, 830
Titanium ore, production of.....	744
<b>Tobacco</b>	
Summary.....	690, 698
Acreeage and production.....	669, 671, 672, 690, 698
Employment and pay-roll indexes in indus-	
try.....	347, 348
Foreign trade.....	498,
500, 502, 514, 563, 586, 645, 713, 842	
Leaf consumption.....	841, 842
Manufacture.....	56, 57, 810, 842
Prices.....	326, 328, 333, 334, 691, 698
Production index.....	822
Revenue from manufactures.....	183, 184
Traffic movement.....	414, 435
Tobago and Trinidad, trade.....	486
Toilet preparations, etc.....	503, 546, 583, 799, 828
Tomatoes.....	509, 557, 608, 672, 718
<b>Tonnage</b> .....	
Entered and cleared in foreign trade.....	452-457
Of domestic commerce.....	429-435
Of Merchant Marine.....	436-439, 443, 444
Of Navy vessels.....	155, 156
Of water-borne foreign commerce.....	429, 444-452
Through Panama Canal.....	440, 441
Through Sault Ste. Marie Canal.....	453
Tools (see also Cutlery and Machine tools)	
.....	534, 577, 805
Toys, etc.....	503, 547, 584, 813
<b>Traction companies, dividend payments (see</b>	
<b>also Railways, electric)</b> .....	314
<b>Tractors and tractor engines</b> .....	328,
540, 639, 640, 831, 835, 837	
<b>Trade (business) (see also Commerce and</b>	
<b>Foreign trade):</b>	
Corporation tax returns.....	187-190, 195, 197, 198
Failures.....	321, 322
Persons engaged in.....	51, 53, 54, 60
Retail and wholesale, sales indexes.....	317, 318
Trade and industry, vocational training in.....	124-127
Trade-marks.....	849
Trade regions, foreign trade by.....	446-448
<b>Transportation</b>	
Internal revenue from.....	183, 184
Of foreign commerce.....	430, 437, 445, 446, 452-459
Of mails.....	353
Persons engaged in.....	51, 53, 54, 59, 399-401, 421, 422
Transportation and transmission enterprises,	
value as national wealth.....	293, 295
<b>Transportation and other public utility cor-</b>	
<b>porations, tax returns</b> .....	187-190, 195, 197
Transportation equipment, air, land, water.....	789, 809
Treasury, money held in.....	247
Treasury notes.....	209, 210, 212, 214
Treasury (war) savings securities.....	211, 213, 214
Trinidad and Tobago, trade.....	486
Truck vegetables.....	604, 672
Trucks, motor.....	385, 386, 541, 639, 837
Trucks and road tractors, registration.....	385, 388
Trunks, suitcases, and bags.....	507, 549, 802
Tuners, piano and organ.....	58
Tungsten.....	530, 577, 744
Tunisia and Algeria, trade.....	447, 490
Turbines. <i>See</i> Water wheels, etc	
Turkey, trade with United States.....	447, 488
Turkeys.....	660, 662
Turpentine and rosin.....	333, 513, 560, 731, 795
Twine.....	515, 517, 565, 566, 793, 825
Type founding.....	798
Typewriters and supplies.....	539, 808, 832
<b>Umbrellas and canes</b> .....	549, 571, 813
<b>Undertakers</b> .....	61
<b>Union of Socialist Soviet Republics. See</b>	
<b>Russia</b> .....	
Union of South Africa, trade.....	445, 490
Union rate of wages and hours of labor.....	342-344

[For reference to items not shown in index, see note, p. 851]

	Page
United Kingdom.....	215, 216, 297, 298, 497
Trade with United States.....	447, 485, 488, 709, 755
United States securities purchased or held by banks.....	248, 250, 252, 261, 262, 264, 269, 273
Universities.....	108, 118-121
Upholsterers.....	59
Upholstering materials.....	507, 517, 564, 795, 824
Uranium and vanadium ores.....	577, 744
Uruguay.....	297
Trade with United States.....	448, 485, 486, 755
United States Veterans' Bureau.....	159-163, 172, 178, 180
Vacuum cleaners.....	534, 832
Valises (see also Trunks, etc.).....	507
Vanadium and uranium ores.....	577, 744
Vanilla beans, foreign trade.....	559, 586
Varnishes and paints.....	545, 582, 800, 828
Veal.....	504, 550, 655, 666
Vegetable oils See under Oils.	
Vegetable products (food and other).....	404, 434, 509, 512, 556, 560, 586, 718
Vegetables (see also individual commodities)	
Acage and production.....	604, 608, 670, 672
Canning and preserving.....	718, 790
Foreign trade.....	451, 509, 557, 586, 645
Traffic movement.....	414, 434
Vehicles (see also Motor vehicles)	
Foreign trade.....	452, 503, 540, 580
Manufacture.....	56, 58, 347, 348, 809, 832, 837
Veneers.....	522, 728
Venezuela.....	297, 448, 485, 486, 755
Vessels (see also Merchant marine)	
Employed in fisheries.....	436, 735
Entered and cleared in foreign trade.....	452-457
Fuel consumed by.....	524, 765, 773
Navy.....	155, 156
Passing through Sault Ste Marie Canal.....	433
Passing through the Panama Canal.....	440, 441
Veterans' Bureau.....	159-163, 172, 178, 180
Vinegar and cider.....	510, 792
Virgin Islands	
Area, population, and date of accession.....	1, 3
Trade.....	486, 594
Other statistics.....	110-113, 115, 356, 357
Vital statistics	
Births and birth rates—	
Summary.....	83, 85
By legitimacy.....	87
By States.....	84-87
Excess over deaths.....	85-86
Still births.....	87
Deaths and death rates (see also Accidents and fatalities)—	
Summary.....	77, 83
By age groups and sex.....	78
By causes.....	82, 89
By color.....	79, 85
By registration cities.....	81
By registration States.....	79, 80
Infants.....	77, 83, 88, 89
Per 1,000 births.....	83, 88, 89
Registration area for births and deaths.....	77, 83, 91
Homicides and suicides.....	90
Marriages and divorces.....	91, 92
Vocational education.....	124-127
Vocational rehabilitation.....	128
Vote, electoral and popular.....	166, 167
Voting age	
Citizenship of foreign-born persons of.....	40
Illiterates of.....	28-30
Total population of.....	20, 21
Wage earners (see also Employees and individ- ual industries).	
Electric light and power plants.....	369
Manufacturing industries, summary.....	785
By general groups of industries.....	788
By individual industries.....	790-814
By size of establishments.....	786
By States.....	815-819
In principal cities.....	820
Mines and quarries.....	740-743
Railways, electric.....	59, 422
Railways, steam.....	59, 400, 401

	Page
Wages (see also Hours of labor).....	369
Electric light and power plants.....	369
Hired farm labor.....	636, 642, 643
Manufacturing industries, summary.....	785
By general groups of industries.....	788
By individual industries.....	790-814
By States.....	815-819
Hourly, in sundry industries.....	337-341
In principal cities.....	820
Mines and quarries.....	340, 341, 740, 742, 743
Pay-roll indexes.....	345-349
Railroads.....	400, 401, 422
Road building.....	341
Telegraph systems.....	362, 364, 365
Telephone systems.....	359
Union rates in specified trades.....	342-344
Wagon-road land grants.....	131, 132
Wagons, carriages, etc.....	56, 58, 348, 542, 809, 837
Wales, trade with United States.....	447
Wall paper.....	524, 572, 797
Walnuts.....	558, 586, 671
War Department	
Employees.....	164
Expenditures.....	172, 176, 180, 182
War Finance Corporation.....	164, 180, 285
War, World, money cost of.....	216
War-savings securities.....	211, 213, 214
Washing machines and clothes wring- ers.....	539, 808, 832
Watches and clocks.....	56, 58, 503, 548, 584, 807
Water-borne commerce.....	429-435, 444-452, 458, 459
Water, piped on farms.....	639
Water reserves, public.....	135
Water wheels and turbines.....	369, 370, 535, 787, 831
Watermelons.....	672
Water power.....	367-370, 374, 787
Waterways, internal, traffic.....	429-435
Waterworks, value as national wealth.....	293
Wax	
Animal.....	508, 556, 656
Mineral (paraffin).....	525, 573, 575, 587, 775, 776
Vegetable.....	561
Wealth of the United States.....	293-296
Wearing apparel, manufacture and sales.....	317, 818, 793
Weather strips and screens, window and door.....	795
Weeks law, lands acquired under.....	724
West Indies, trade (see also Cuba, Haiti, Dominican Republic, etc.).....	447, 485, 486
Western Union Telegraph Co.....	365
Whale fisheries.....	436, 737
Whale oil.....	555, 737
Wheat	
Summary.....	668, 694, 711, 712
By States.....	680
Acres and production.....	604, 608, 668, 670, 672, 680, 694, 711
Consumed in flour mills.....	718
Foreign trade.....	451, 498, 509, 556, 712, 713
Imports classed dutiable but entered free.....	478
Freight rates.....	716, 717
Prices.....	326, 333, 334, 681, 694, 714, 715
Receipts at ports and markets.....	715, 716
Supply and distribution.....	712
Traffic movement.....	414, 433, 435
Wheat flour	
Foreign trade.....	451, 498, 509, 556, 713
Manufacture.....	718
Prices.....	326, 332, 333
Whips.....	813
White population See Population, by color or race	
Wholesale dealers, importers and exporters.....	61
Wholesale prices.....	323-329, 642
Wholesale sales index.....	818
Widowed persons.....	22-27, 44
Willow ware. See Baskets, etc.	
Wind velocity, in selected cities.....	141-152
Windmills.....	540, 808, 832
Window shades and fixtures.....	813
Wines.....	560
Wire	
Foreign trade.....	528, 531, 576, 755
Prices.....	333
Manufacture.....	758, 760, 805

[For reference to items not shown in index, see note, p. 861]

	Page		Page
Wire rods, iron and steel.....	527, 576, 750-752, 755	World statistics.....	
Wireless telegraph systems.....	362	Debts due United States.....	215-217
Wood ( <i>see also</i> Lumber and Timber):		Exchange rates.....	297-299
Manufactures.....	499, 503, 522, 570, 795	Merchant marine.....	439
Unmanufactured.....	415, 503, 520, 570	Merchant vessels launched.....	438
Wood carving.....	58, 795	Petroleum production.....	773
Wood distillation.....	800	Rubber, production.....	711
Wood fuel, consumption by railroads.....	419	Sugar production.....	702
Wood preserving.....	796	World War, money cost of.....	216
Wood pulp ( <i>see also</i> Paper and wood pulp)		Wrecks and casualties of vessels.....	442
Foreign trade.....	451, 501, 523, 571	Wringers, clothes, and washing machines..	808, 832
Manufacture.....	730, 731, 797		
Prices.....	328, 335		
Wool.....		Yarns.....	
Consumption.....	665	Artificial silk (rayon).....	519, 569
Foreign trade.....	451, 501, 502, 518, 567, 586, 664	Cotton.....	327, 515, 564, 823
Imports classed dutiable but entered		Jute and linen.....	517, 565, 825
free.....	473	Wool.....	327, 518, 567, 824
Prices.....	326, 335, 664	Yeast.....	510, 799
Production.....	656, 664, 665, 668	Yugoslavia.....	215, 216, 297, 447
Traffic movement.....	414	Yugoslavia and Albania, trade.....	488
Wool manufactures			
Summary.....	792, 793	Zinc.....	
Employment and pay-roll indexes.....	348	Summary, production, consumption, etc..	761
Foreign trade in products.....	501, 502, 518, 567, 586	Foreign trade.....	531, 578, 761
Prices of products.....	325, 327	Persons engaged in manufacture.....	56, 68
Production.....	792, 793, 824	Prices.....	327, 739
Workmen's compensation insurance.....	314	Production.....	744, 761



